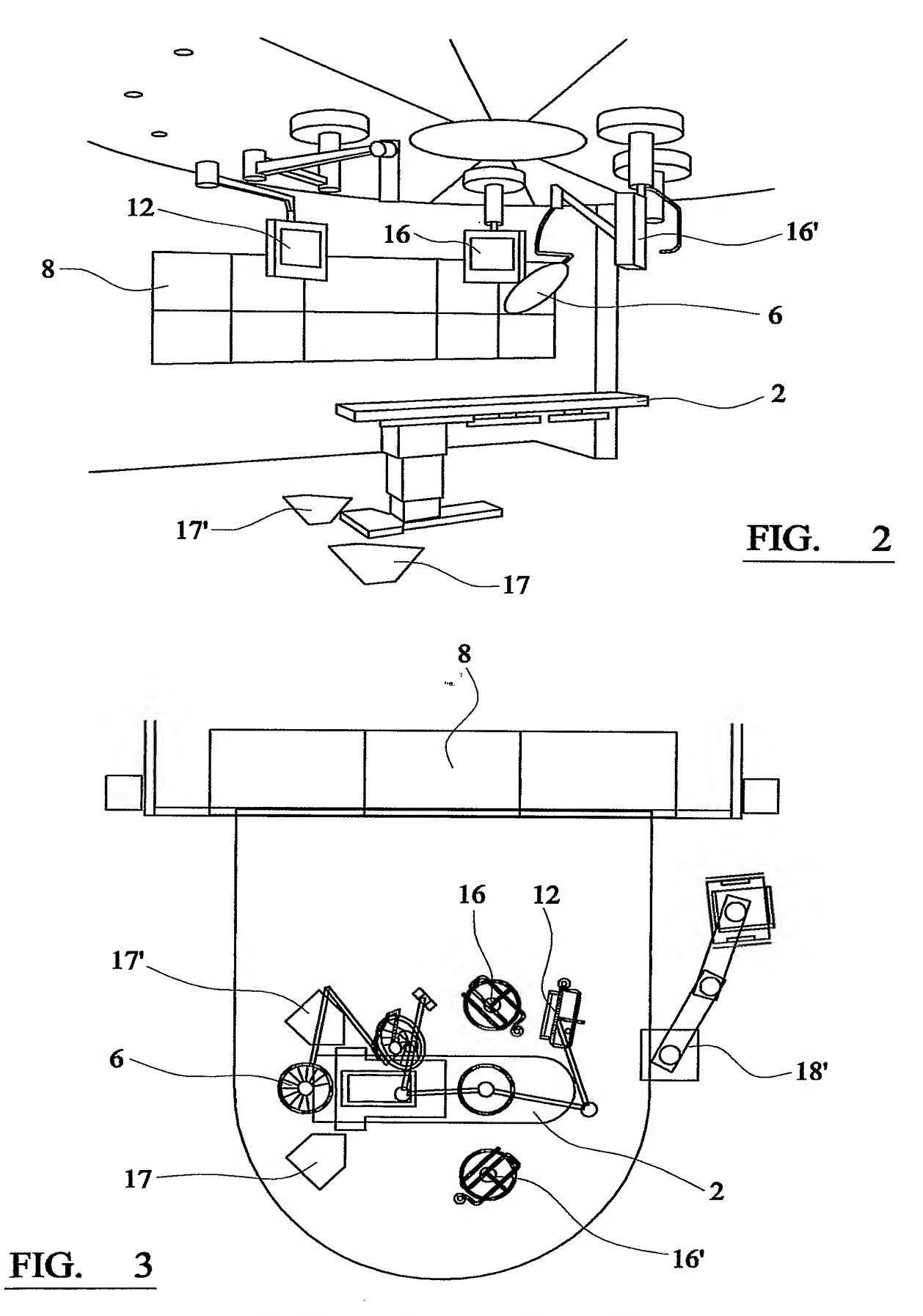
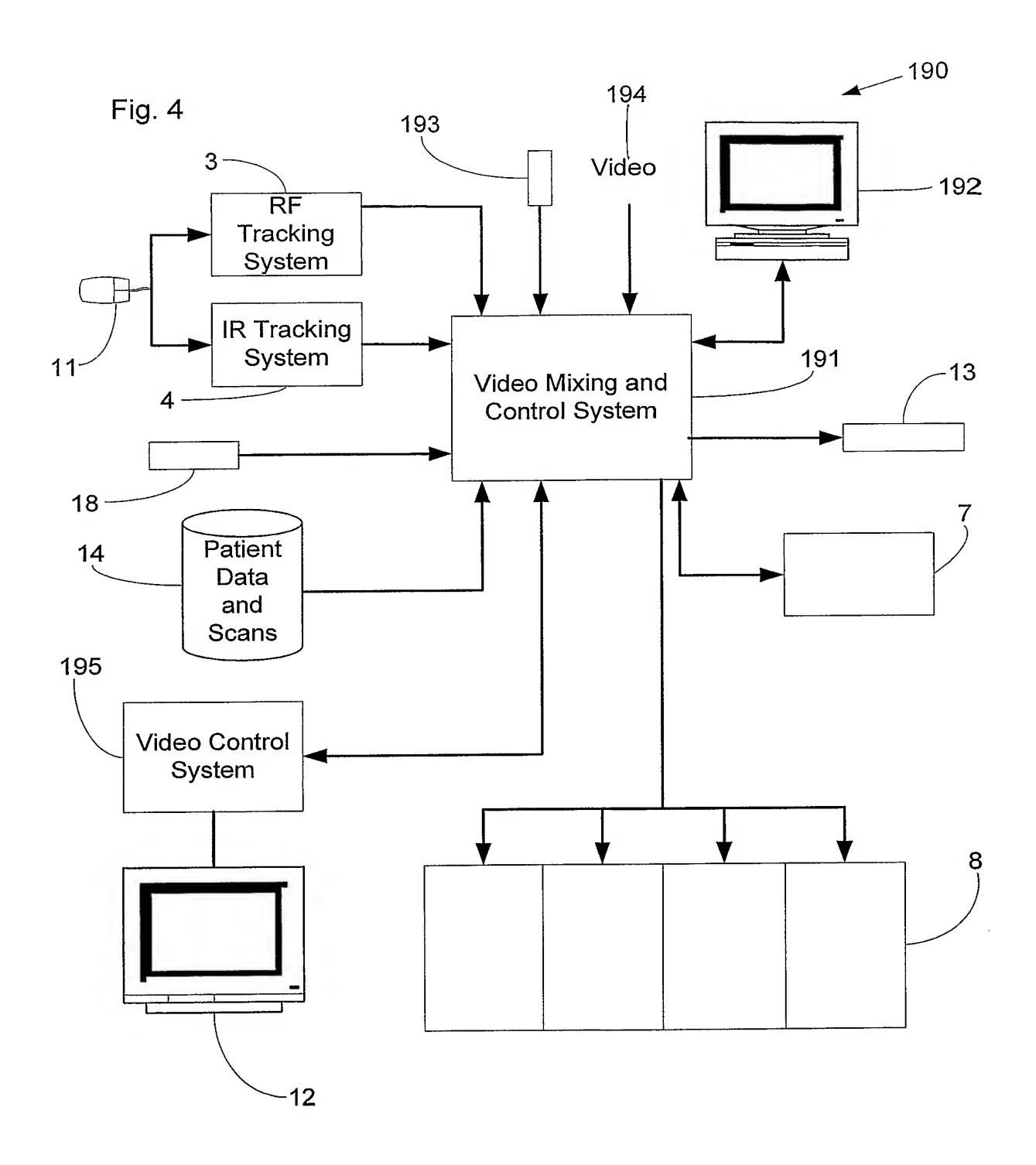
Fig. 1 Video Wall 15 X-Ray IR Tracking . 9 **Imaging** System 14 System 12 13-Data Table 10 11 3 6 Surgical Lighting + RF Site Camera Tracking Display System System

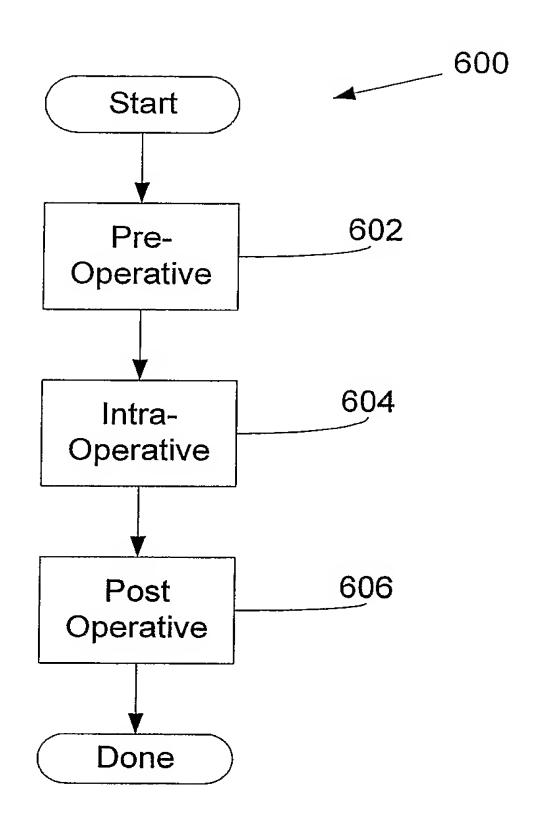


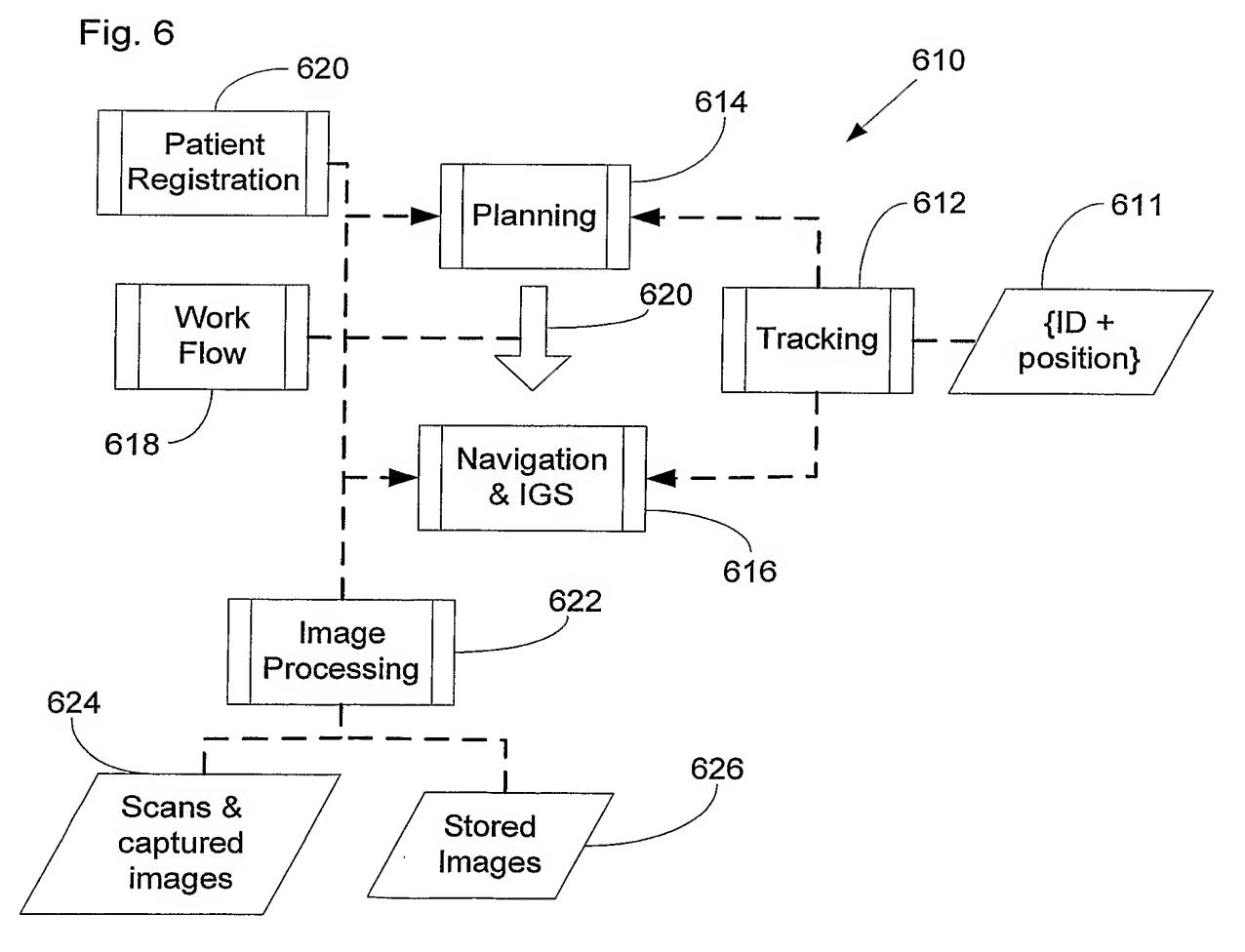
SUBSTITUTE SHEET (RULE 26)



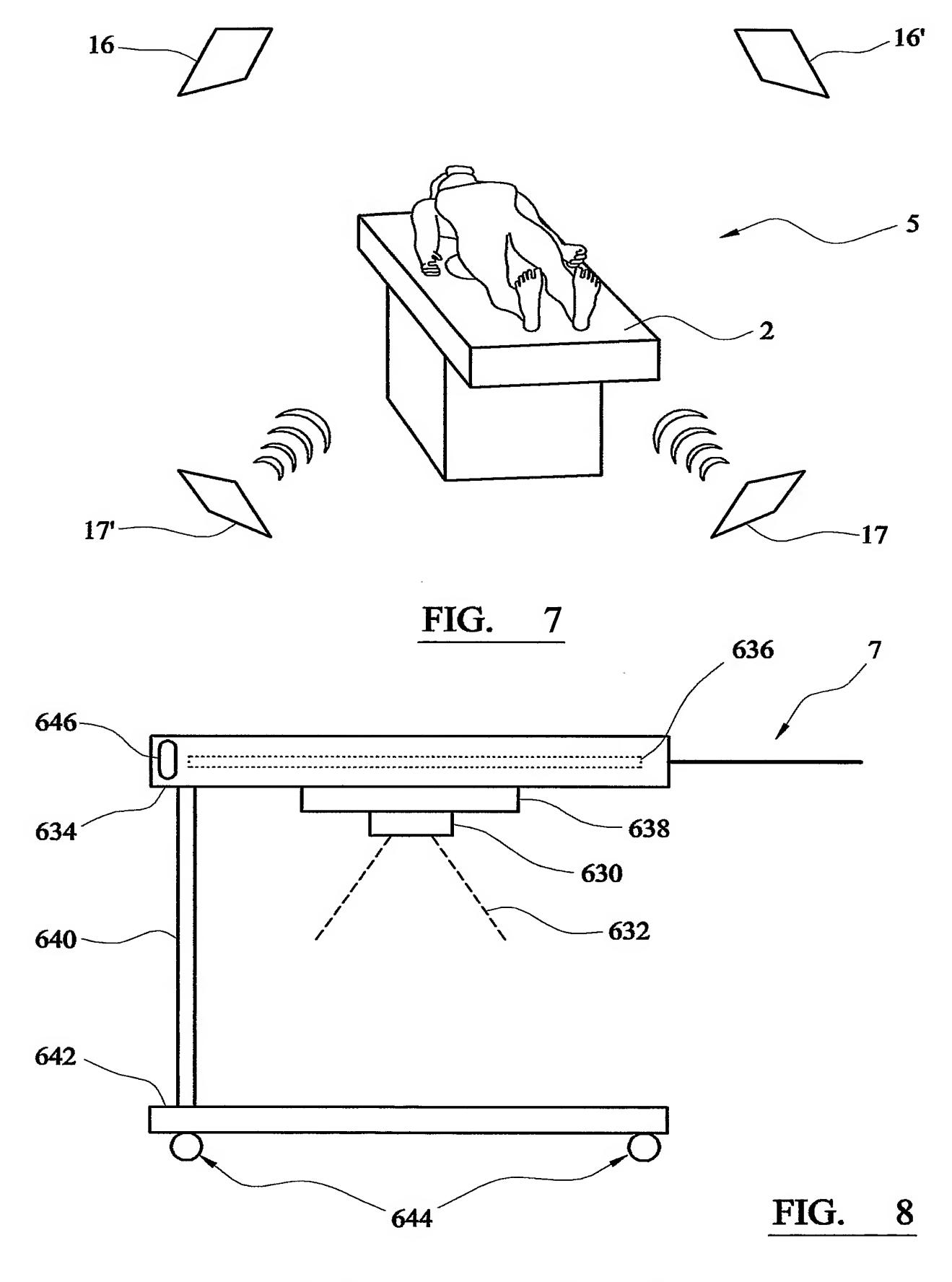
SUBSTITUTE SHEET (RULE 26)

Fig. 5

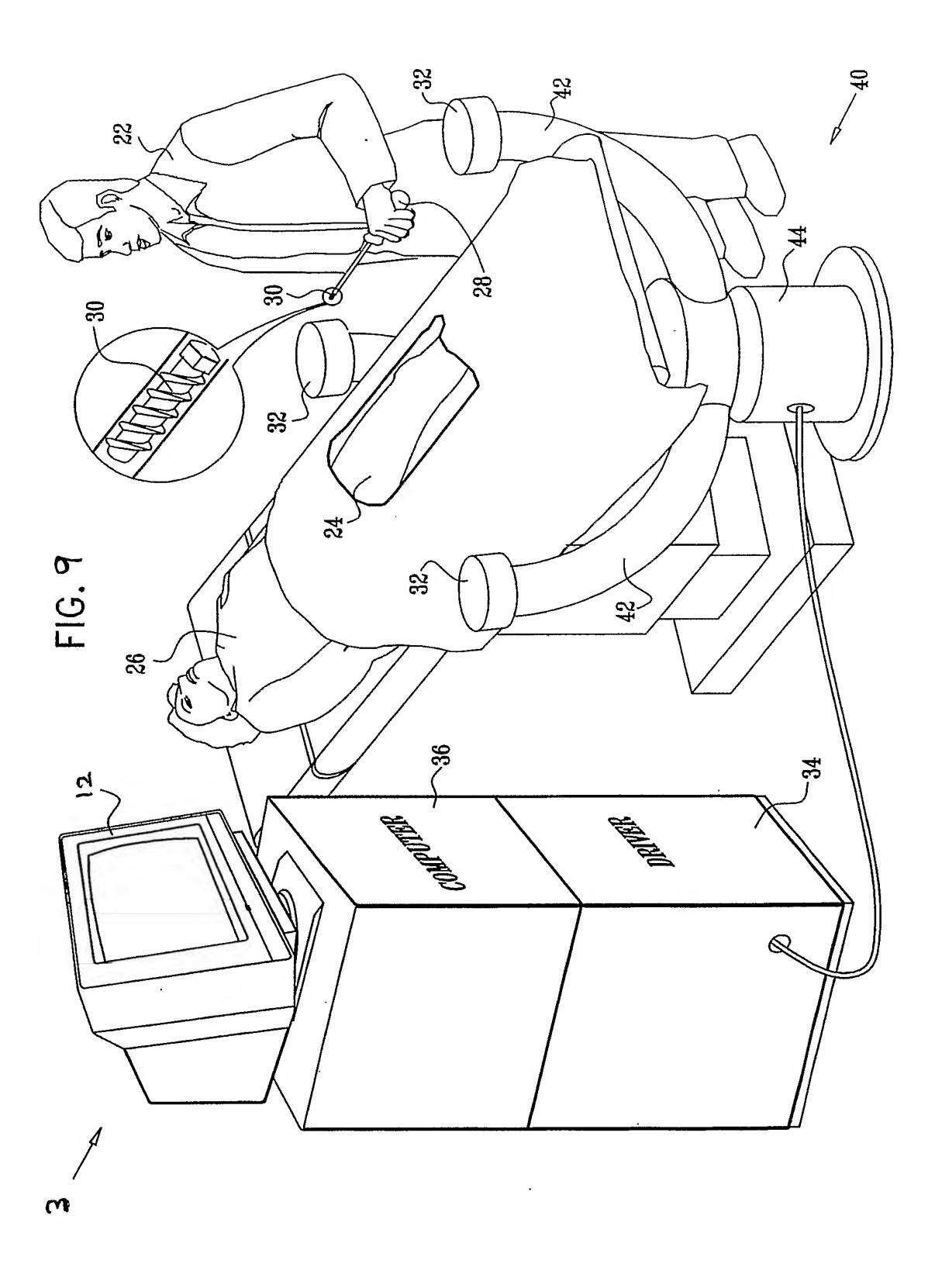




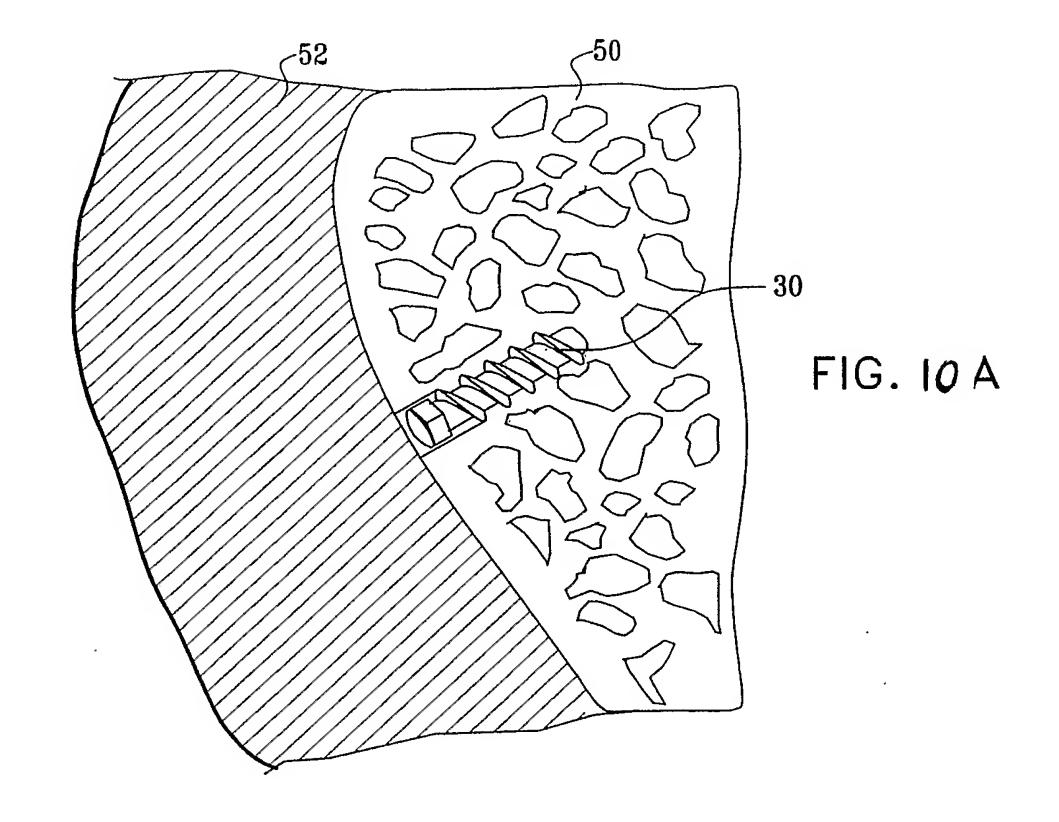
SUBSTITUTE SHEET (RULE 26)

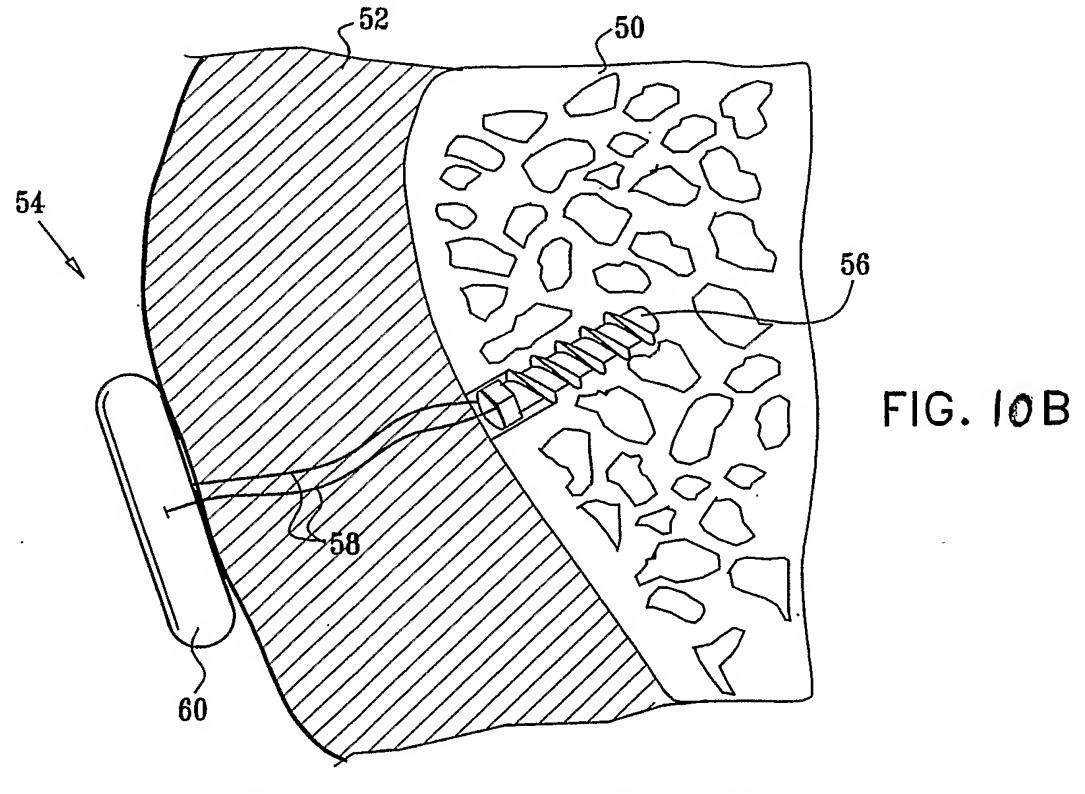


SUBSTITUTE SHEET (RULE 26)

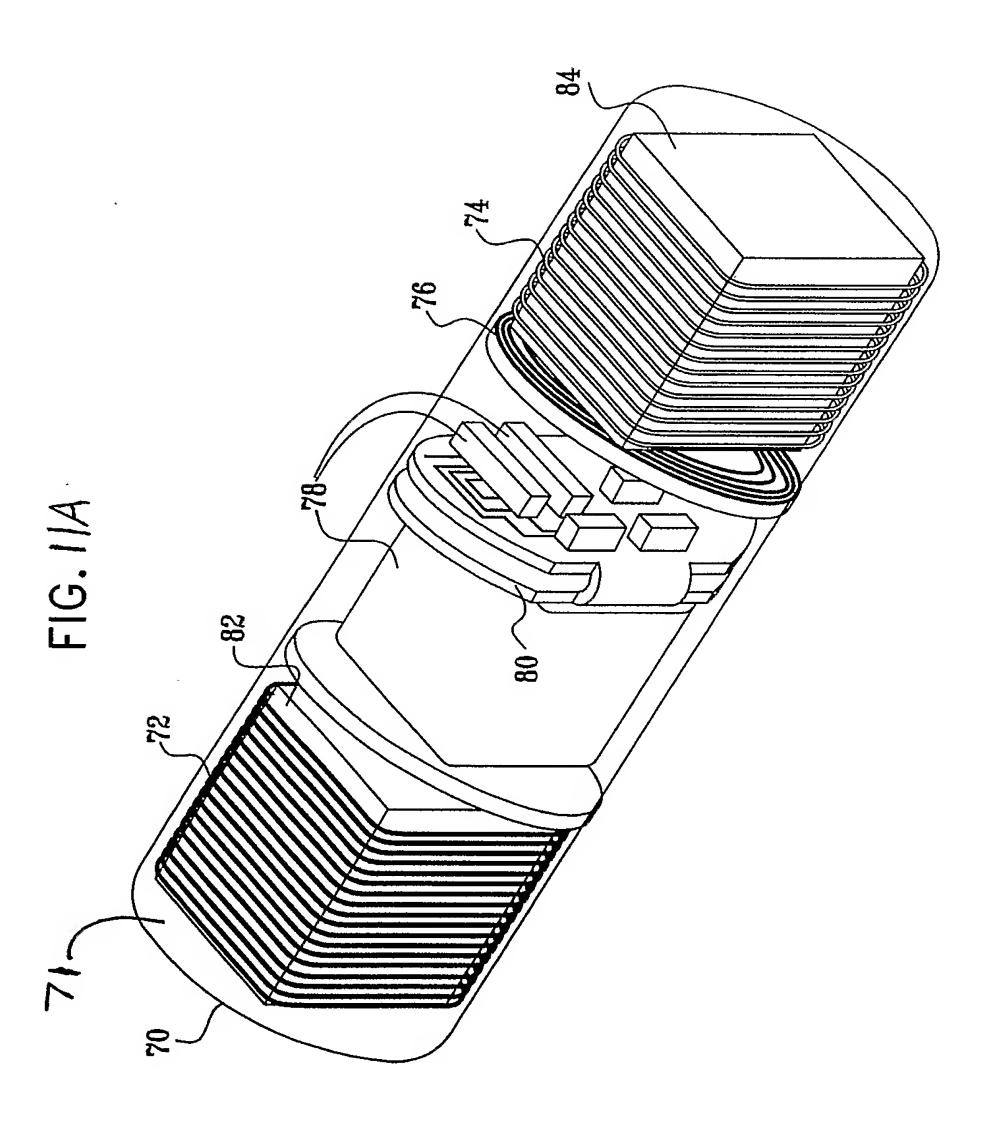


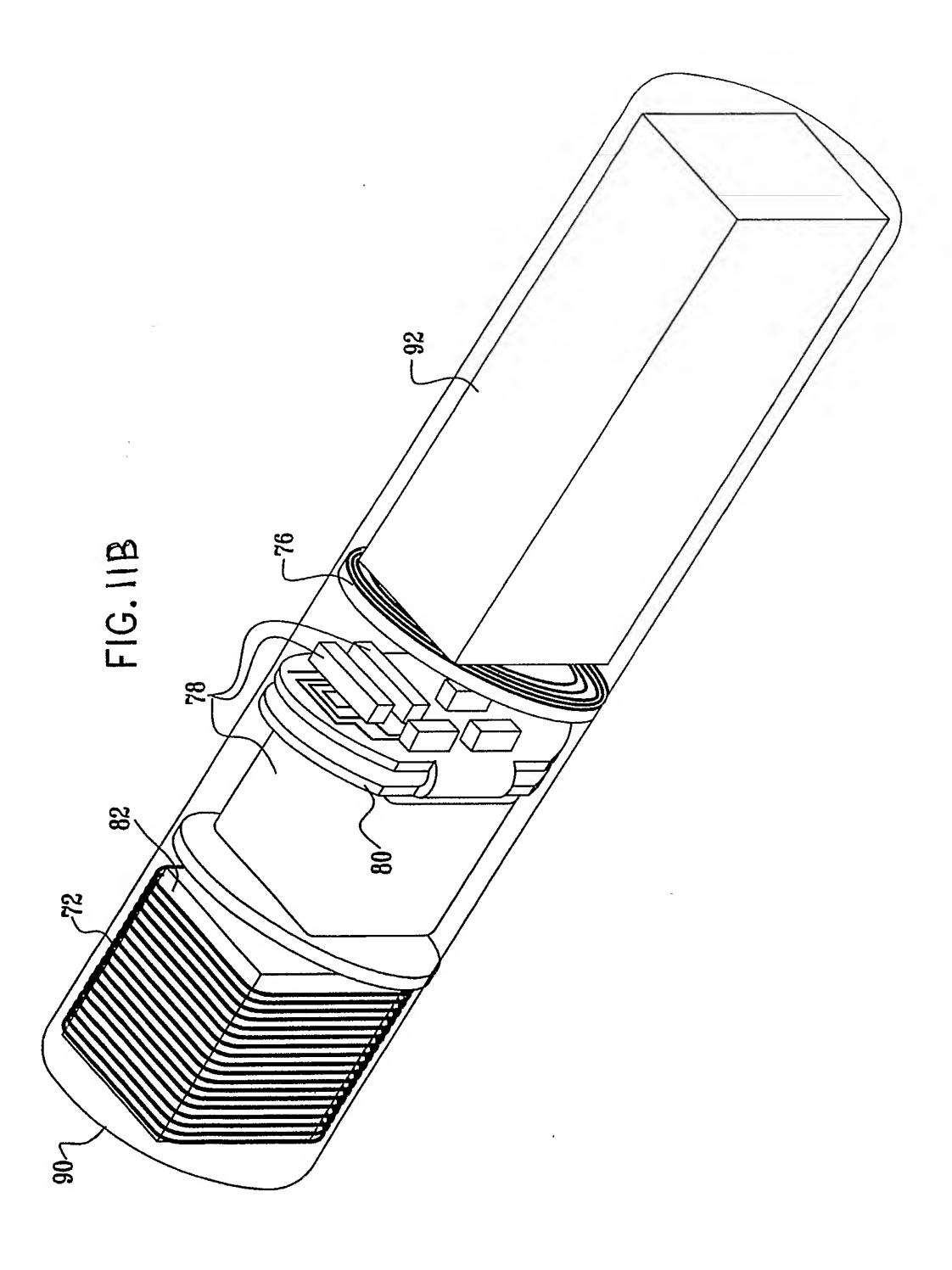
SUBSTITUTE SHEET (RULE 26)

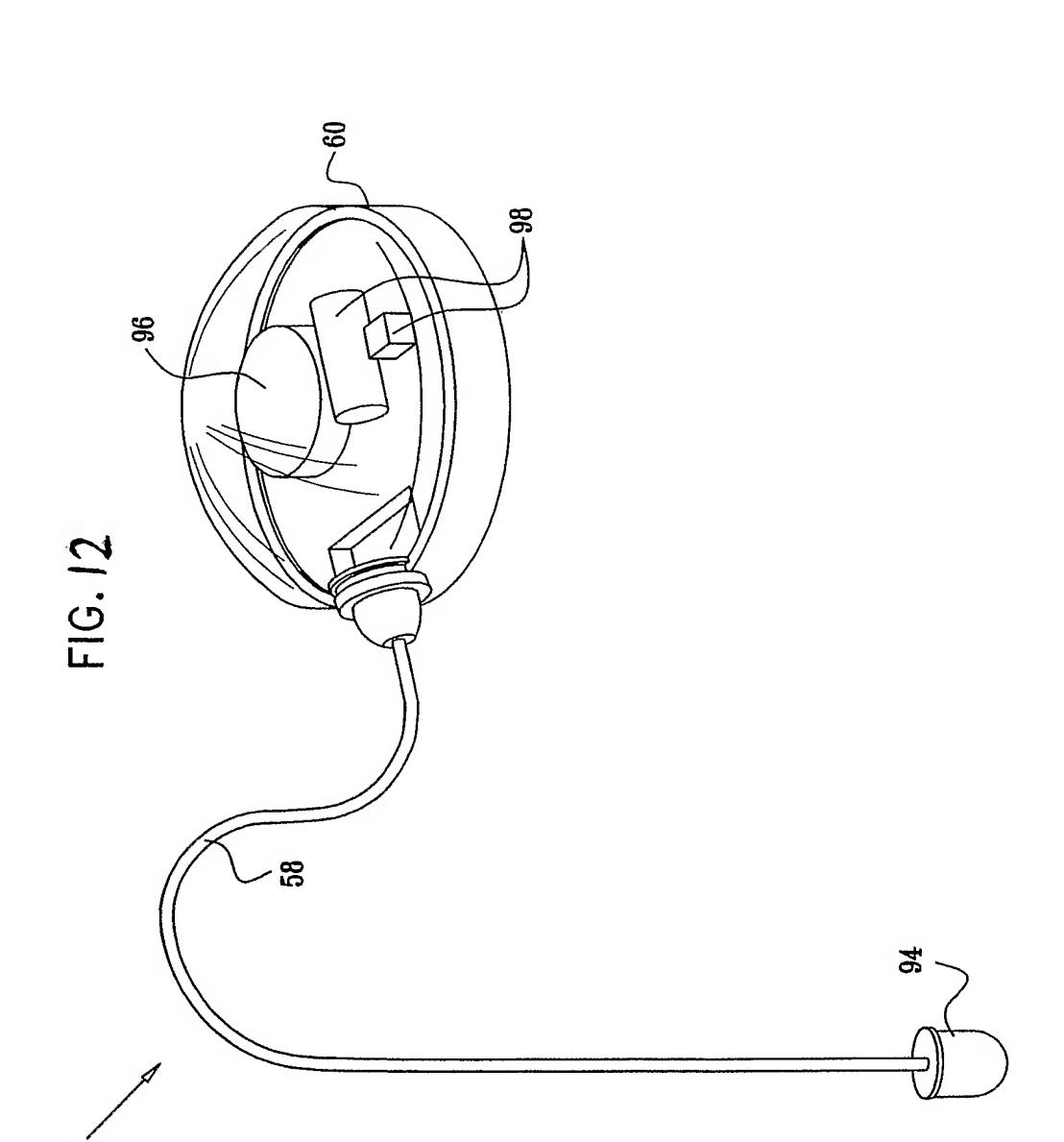


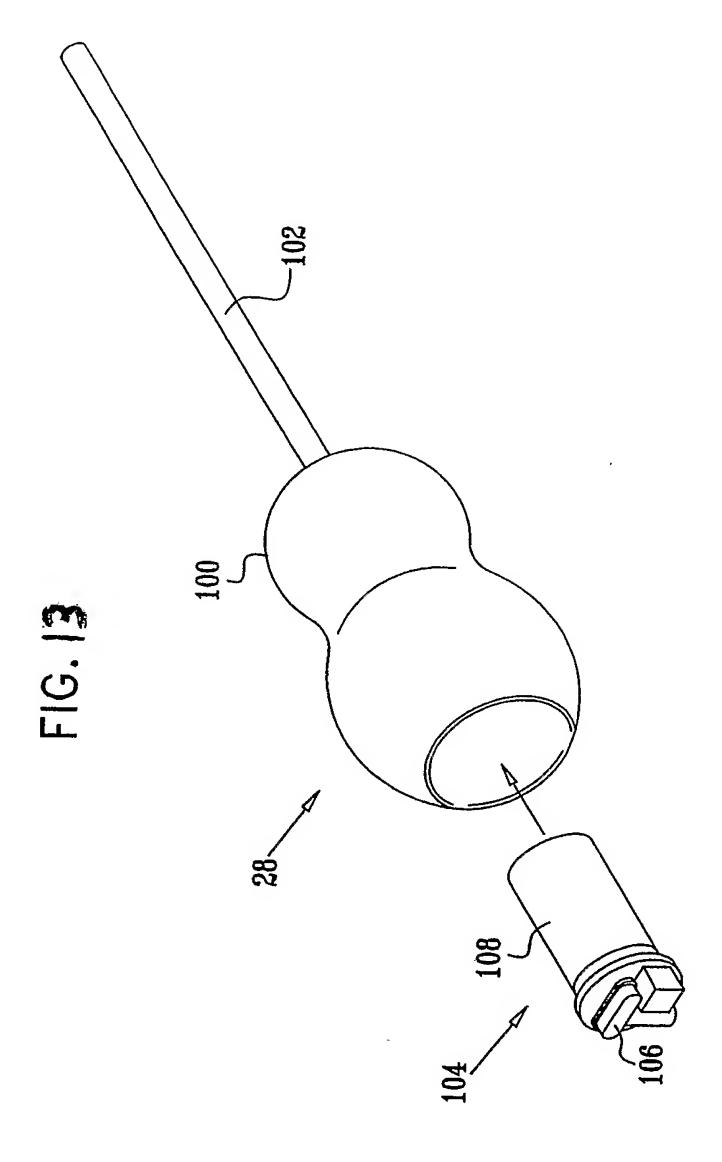


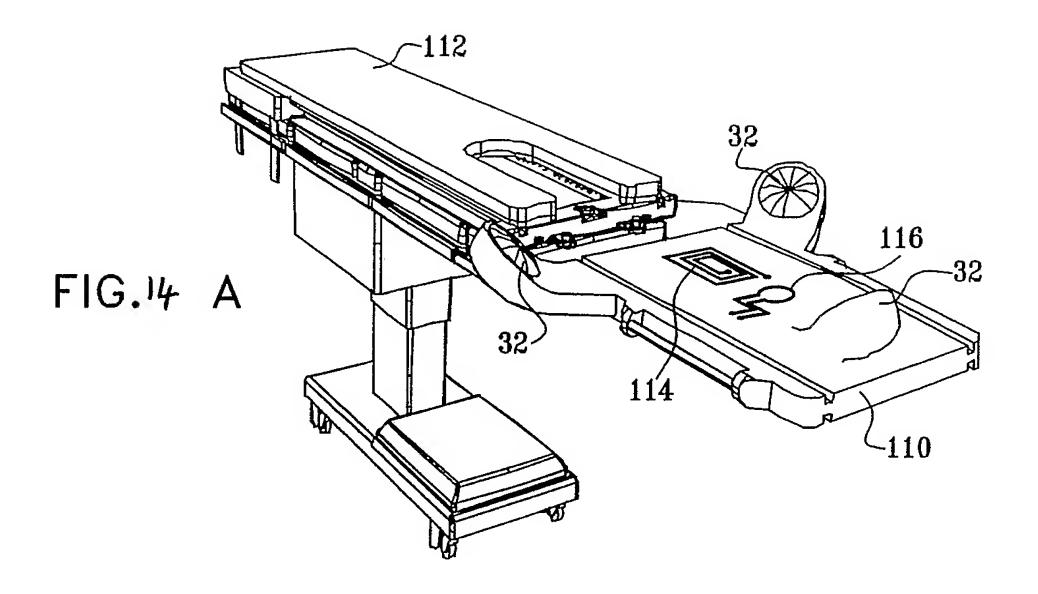
SUBSTITUTE SHEET (RULE 26)

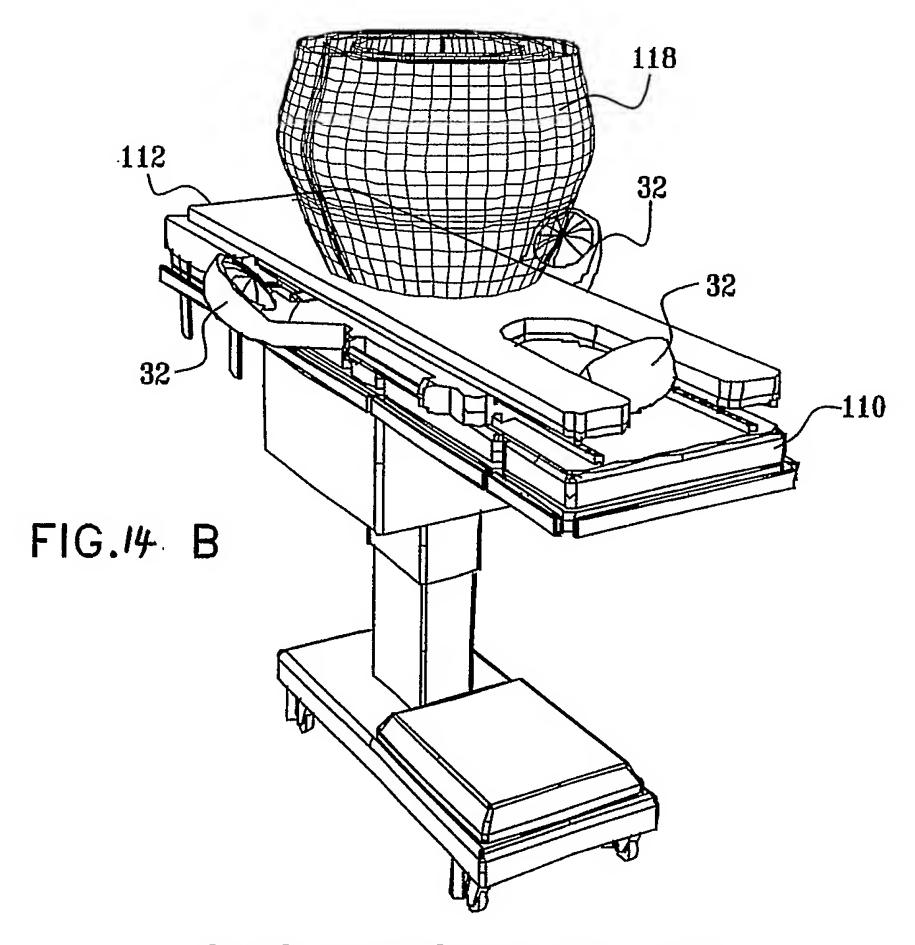




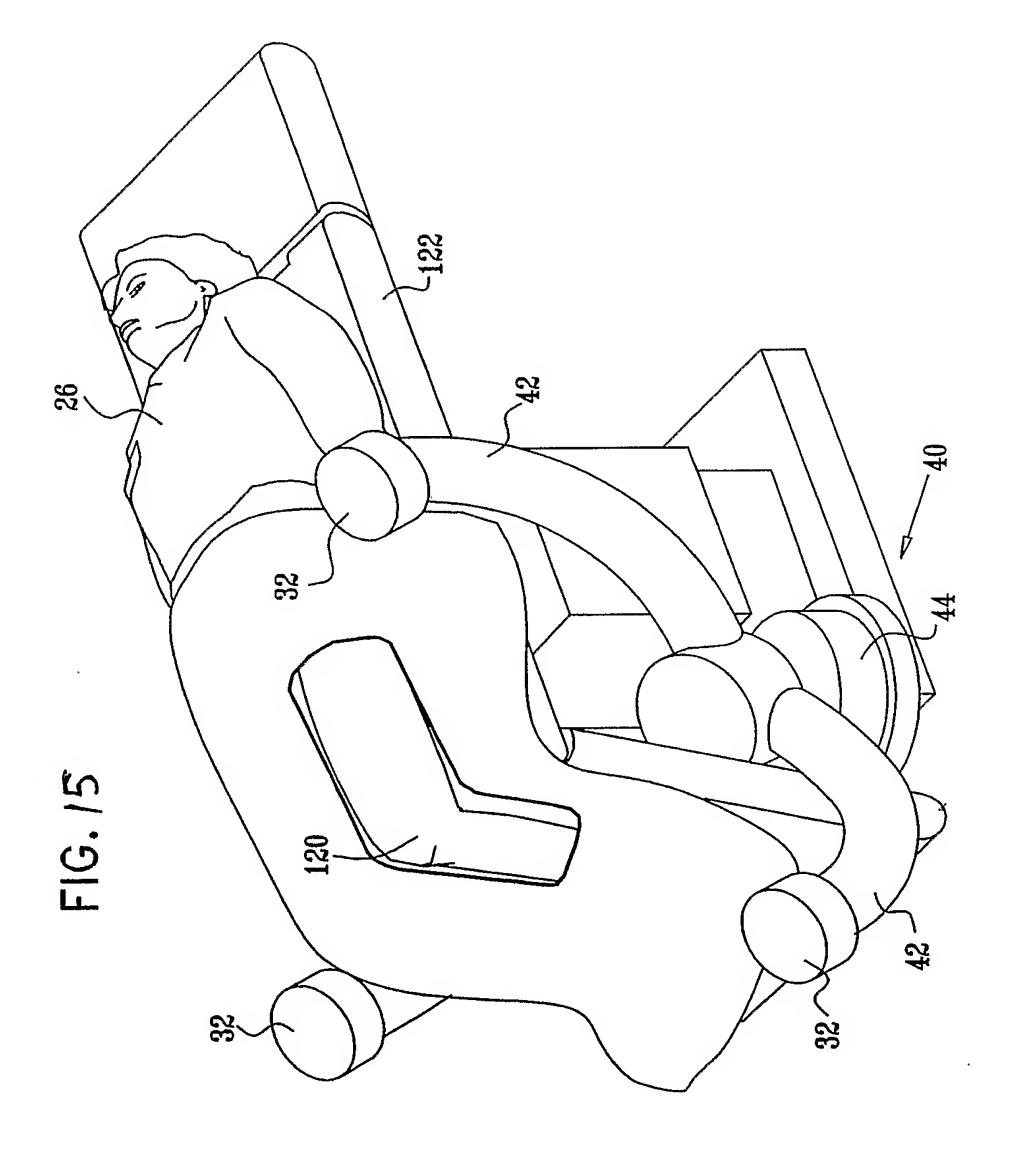








SUBSTITUTE SHEET (RULE 26)



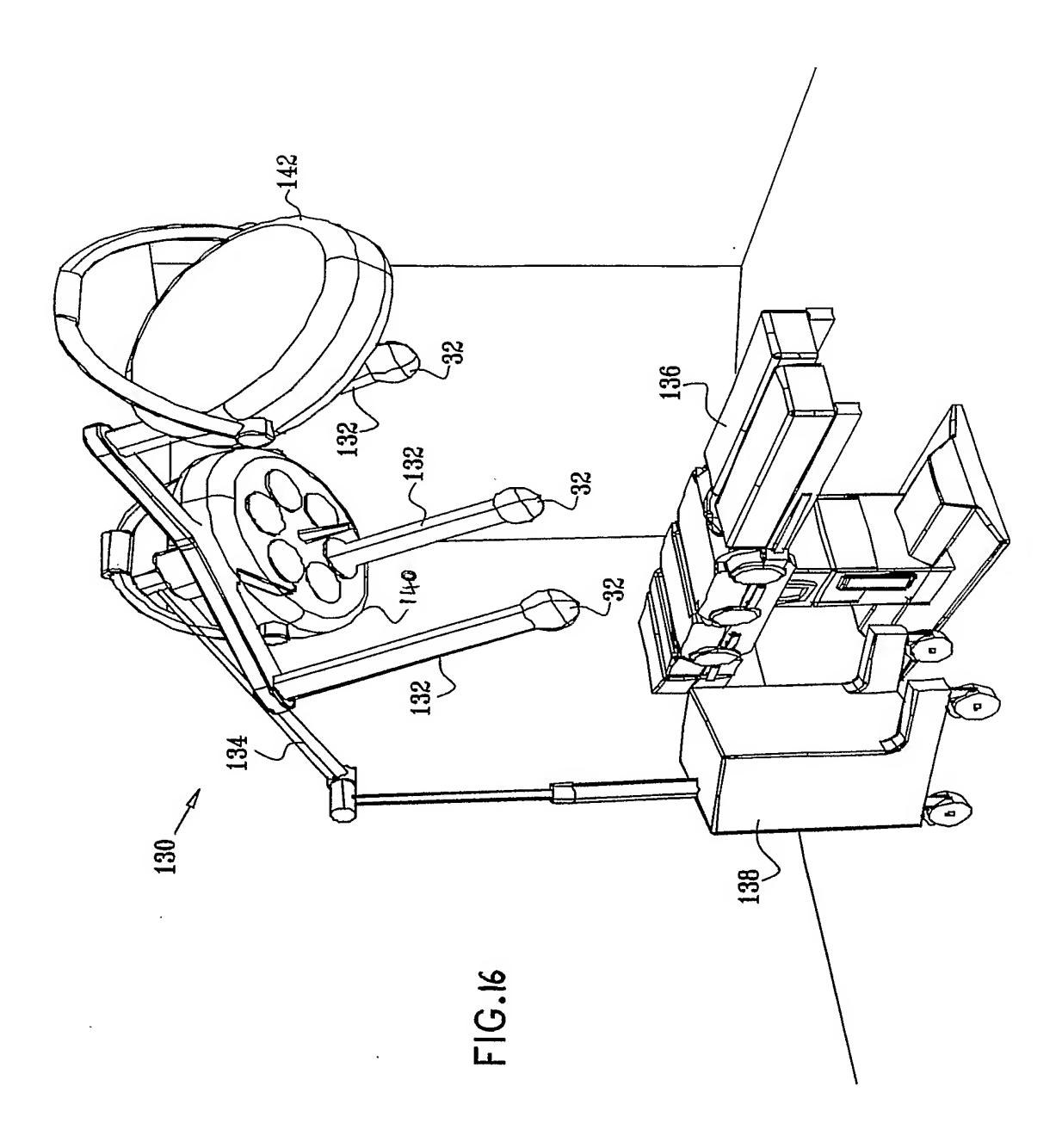
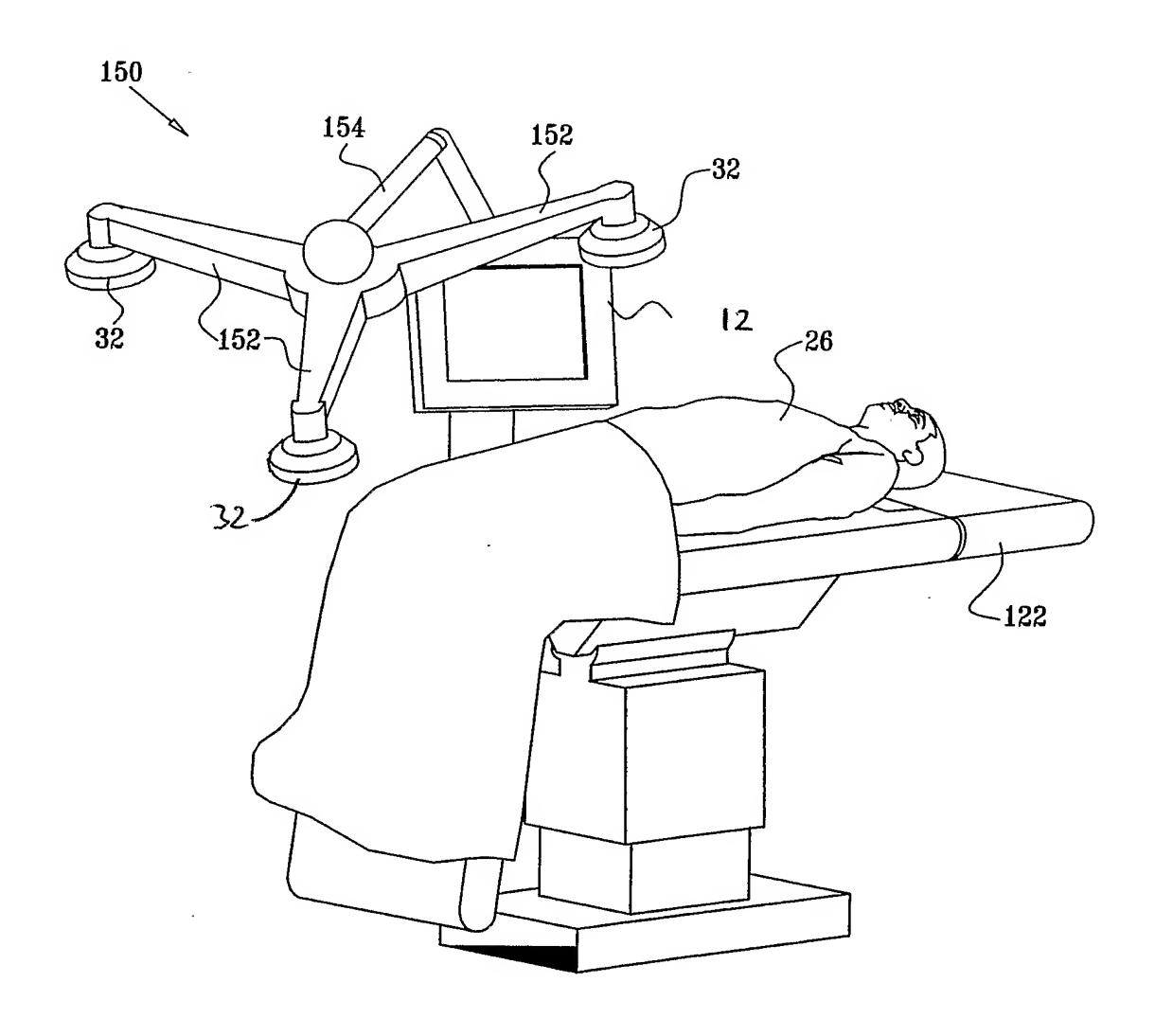
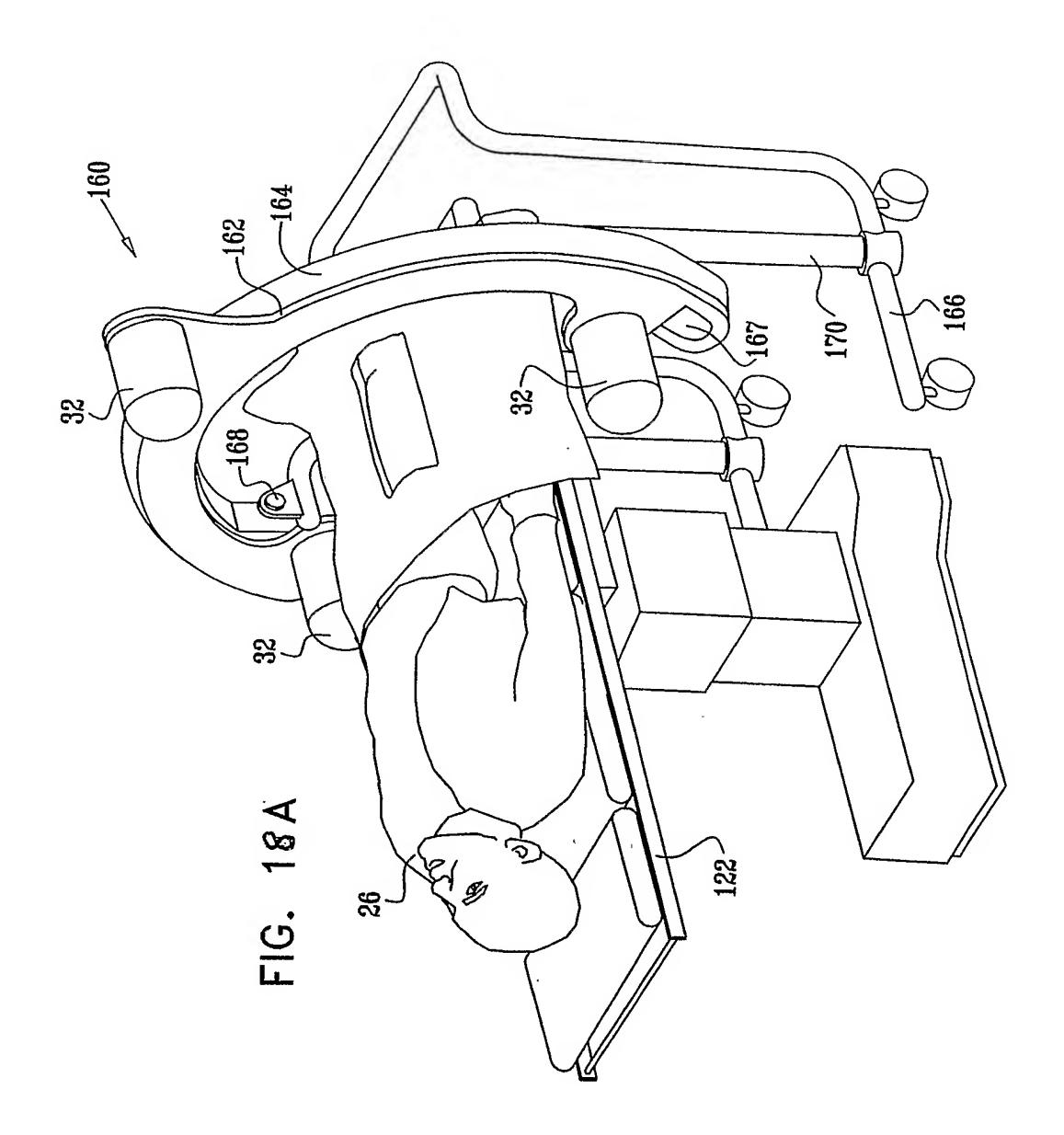
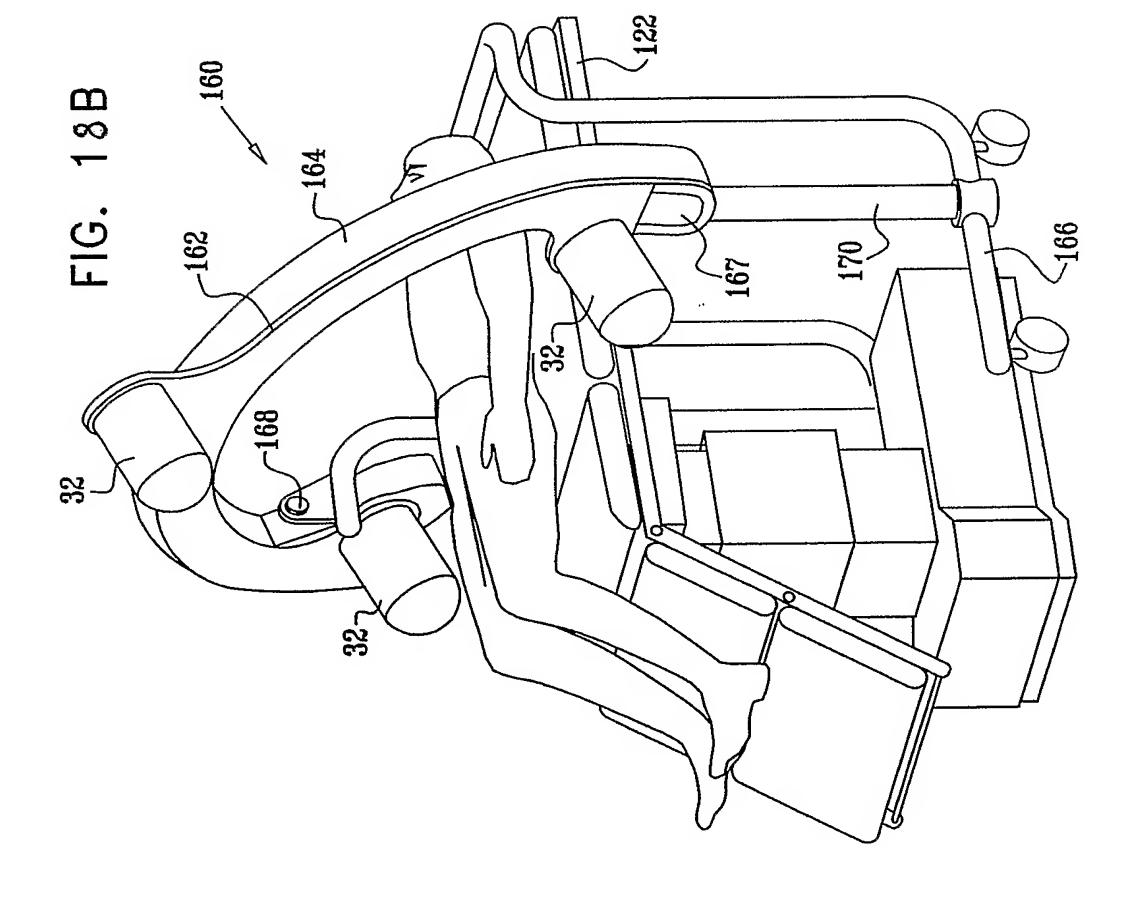


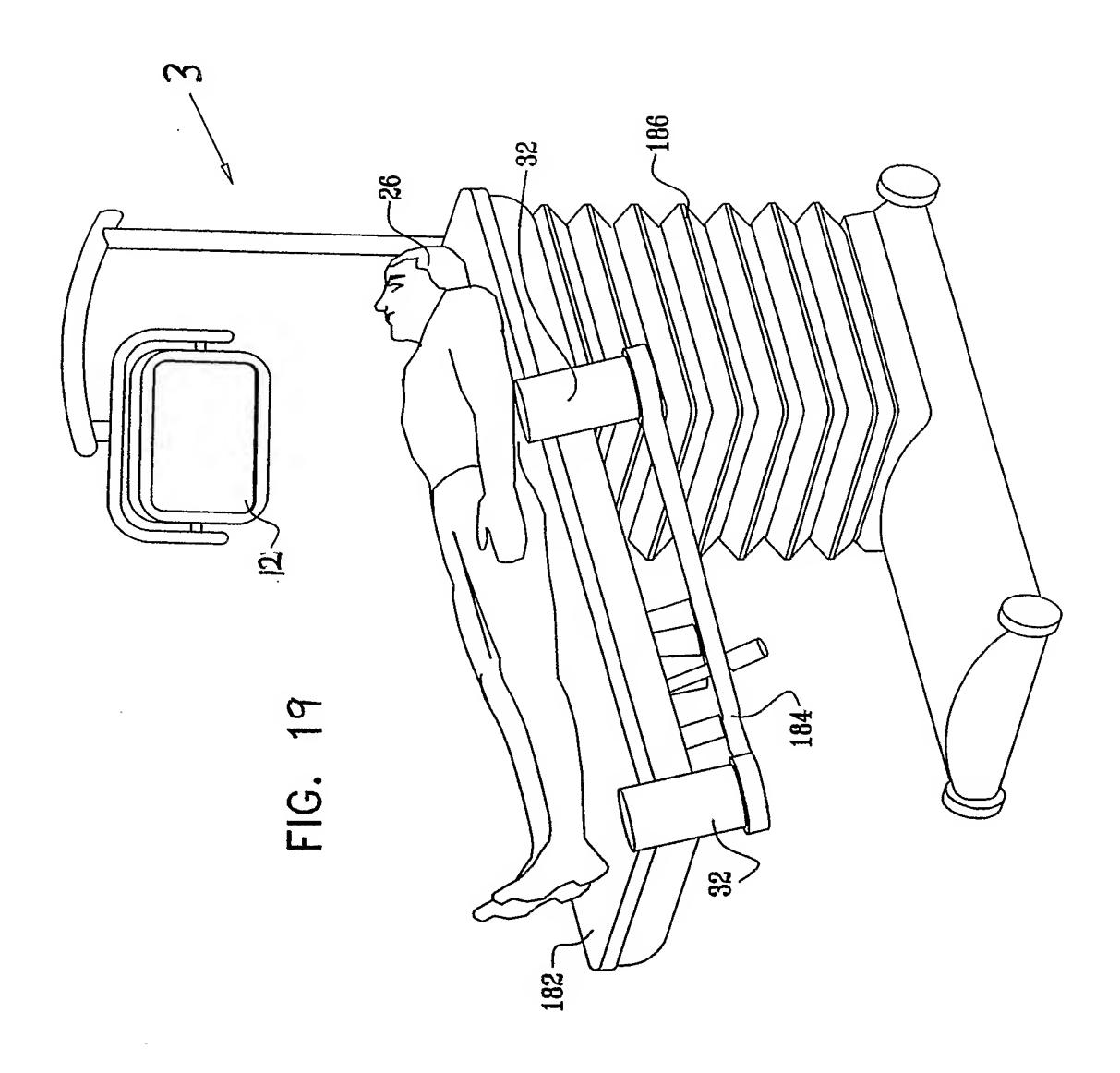
FIG.17

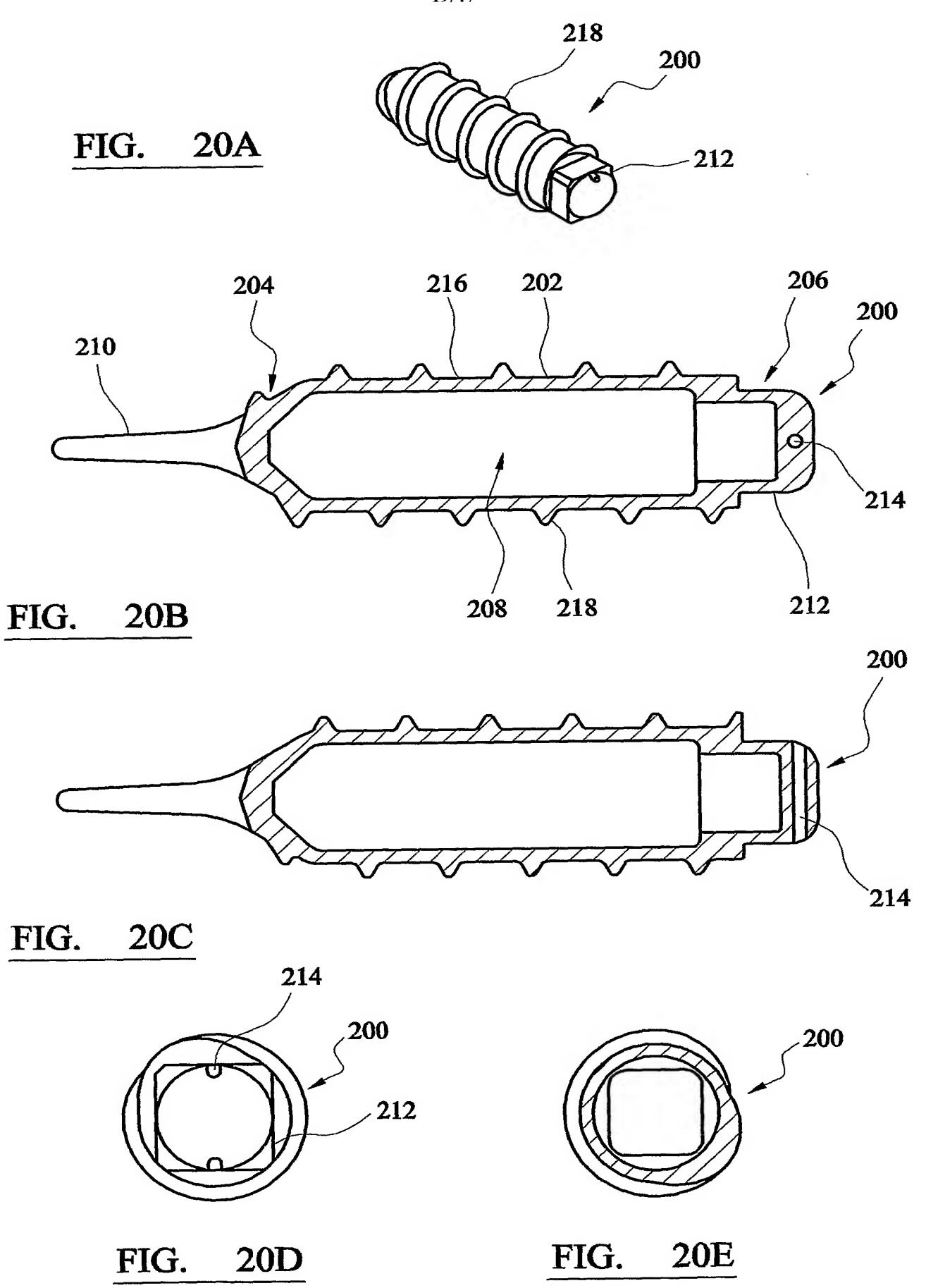


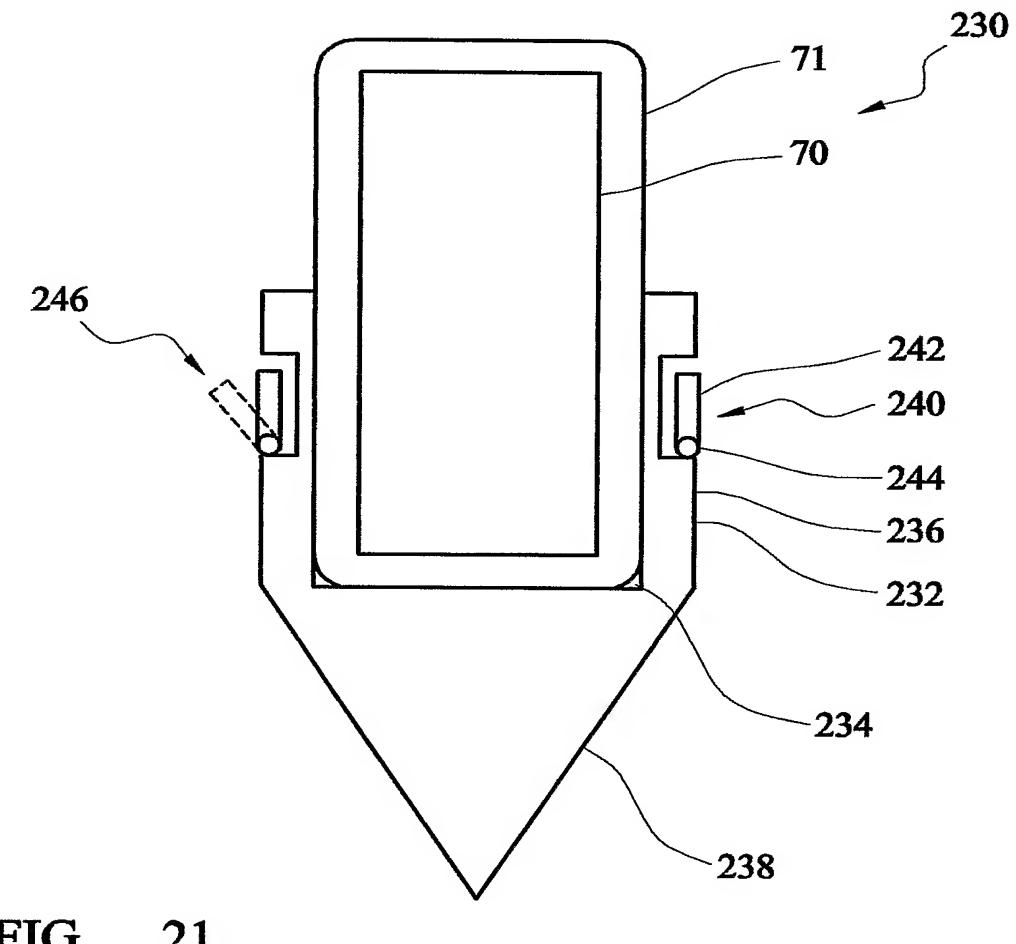




SUBSTITUTE SHEET (RULE 26)









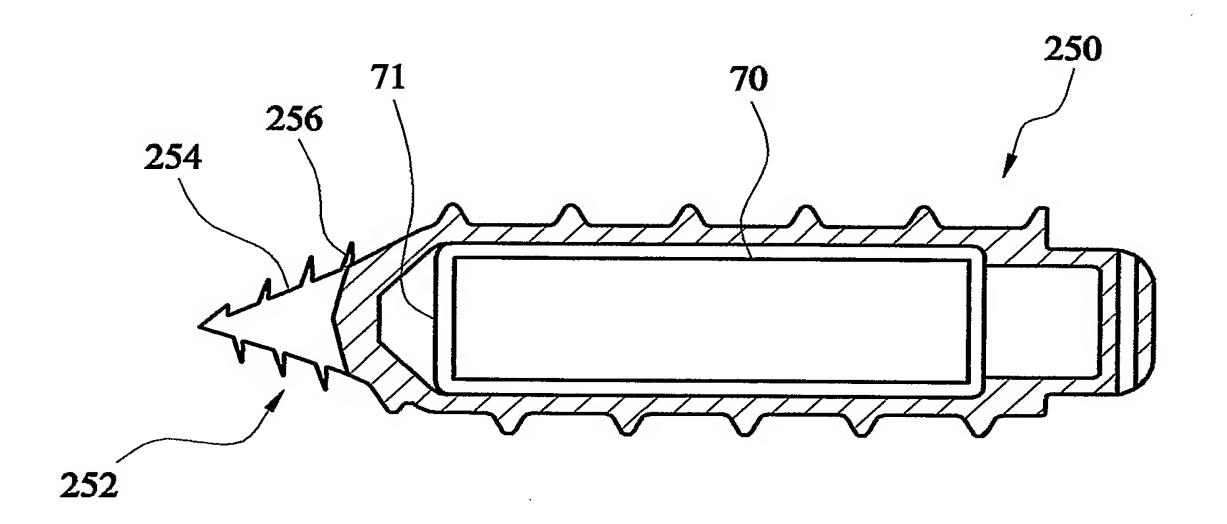
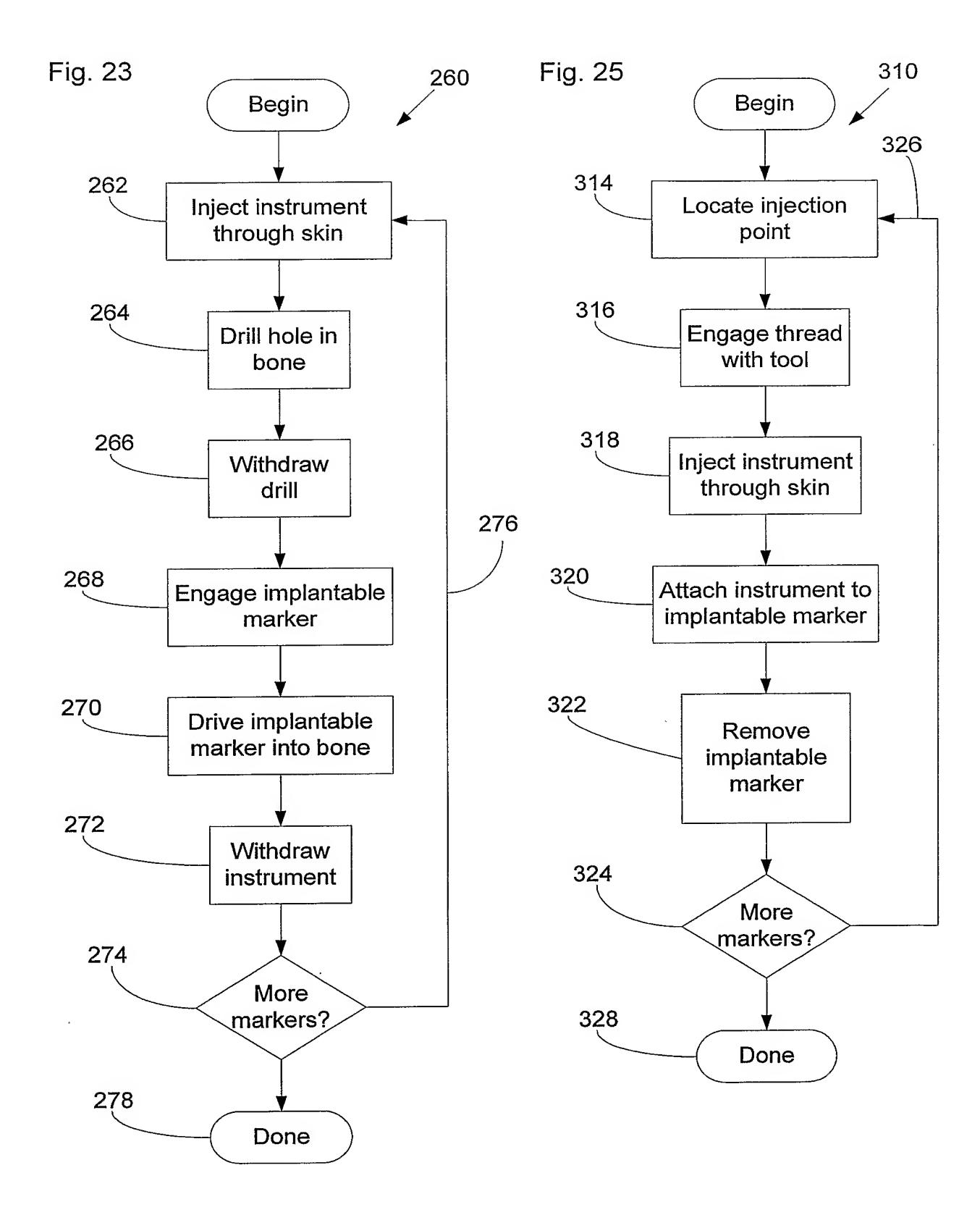
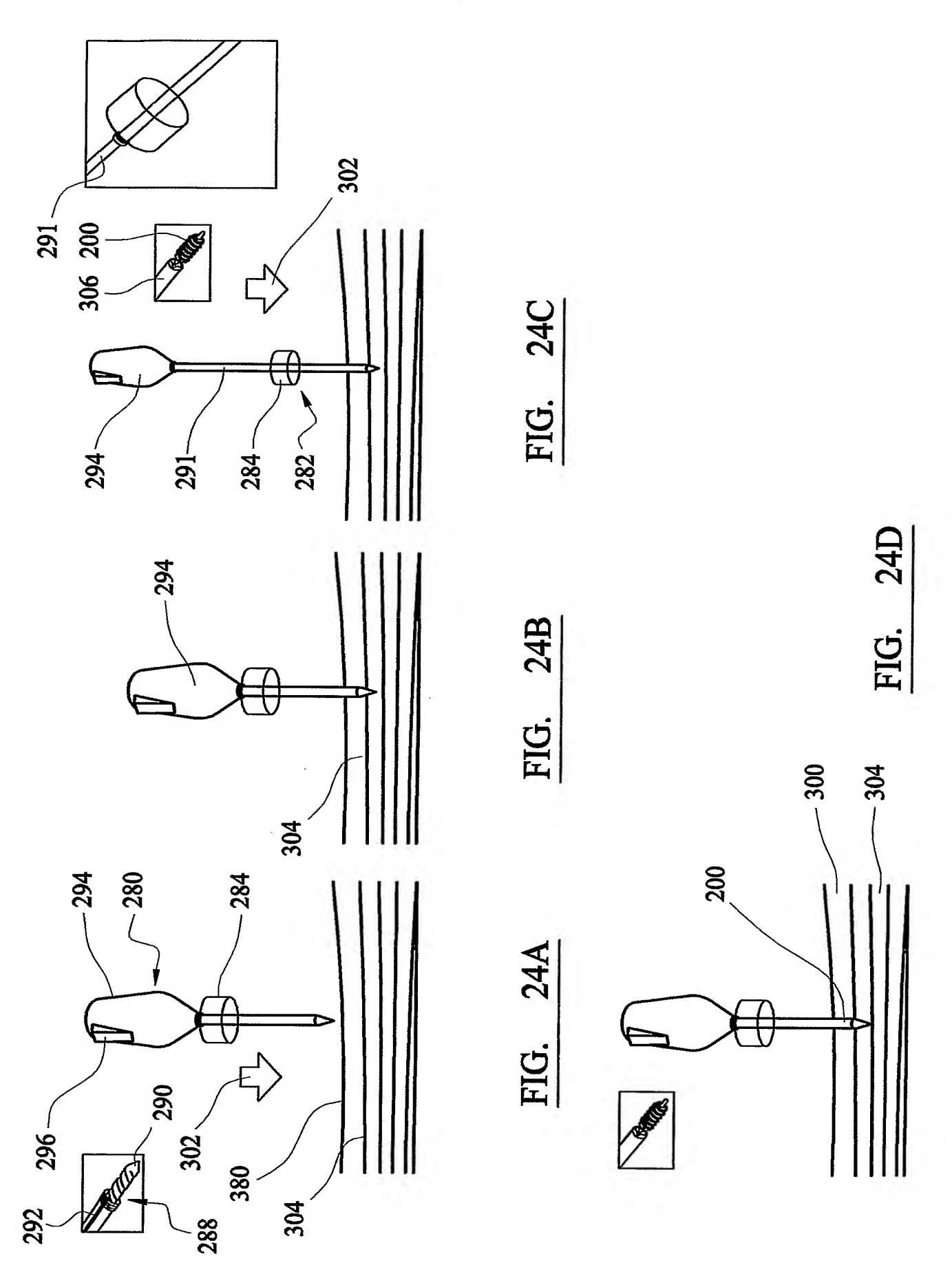


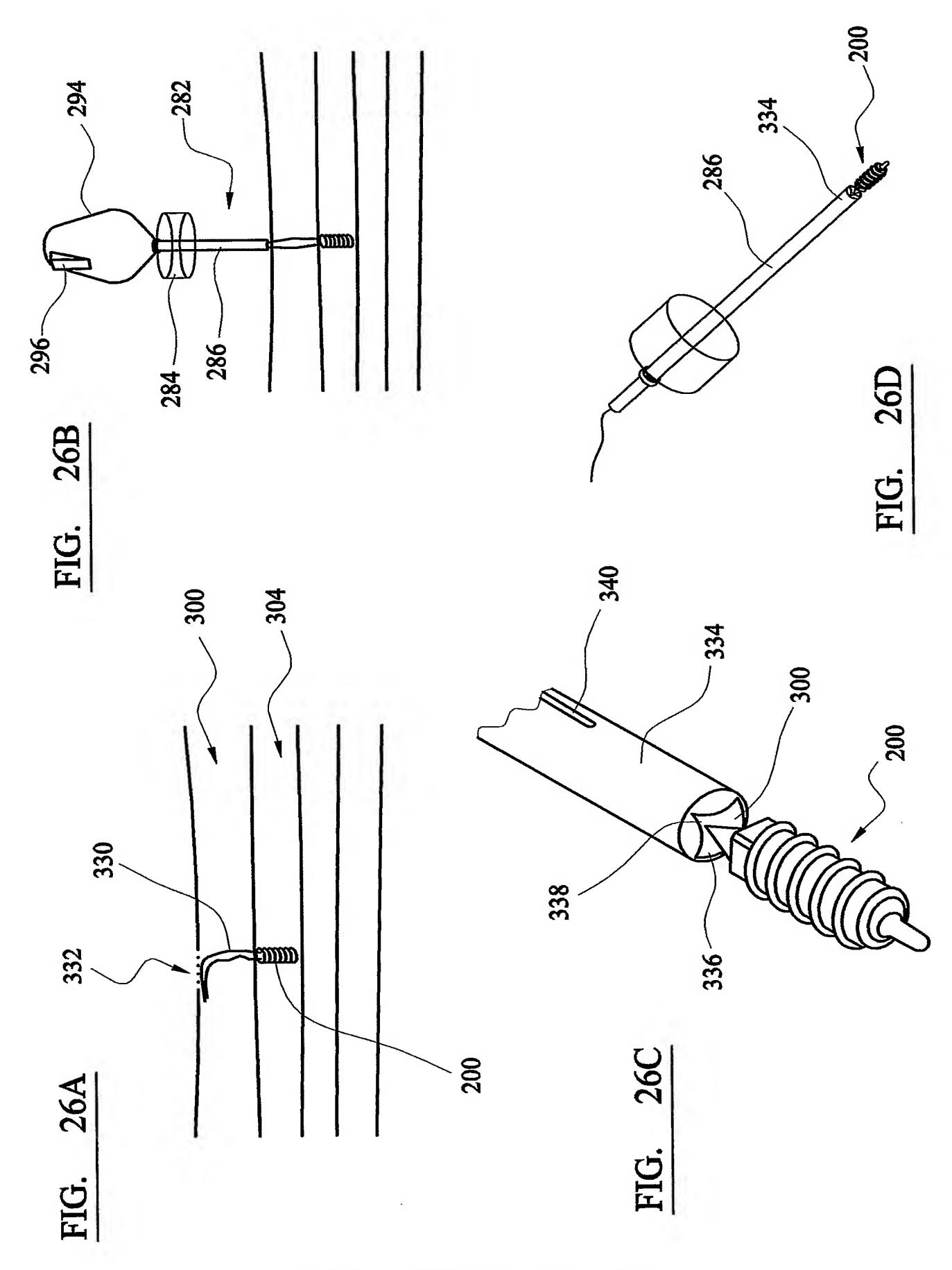
FIG. 22



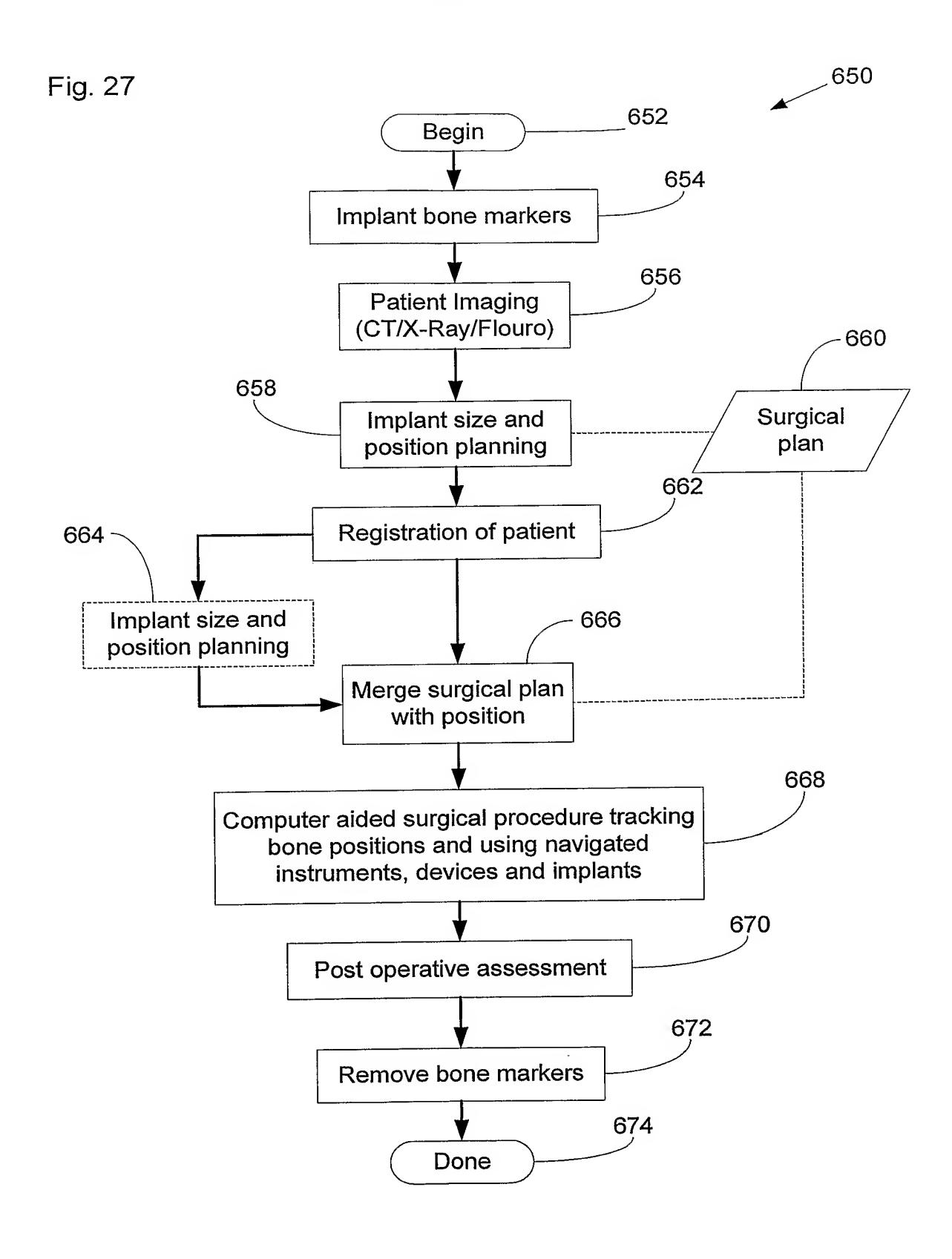
SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

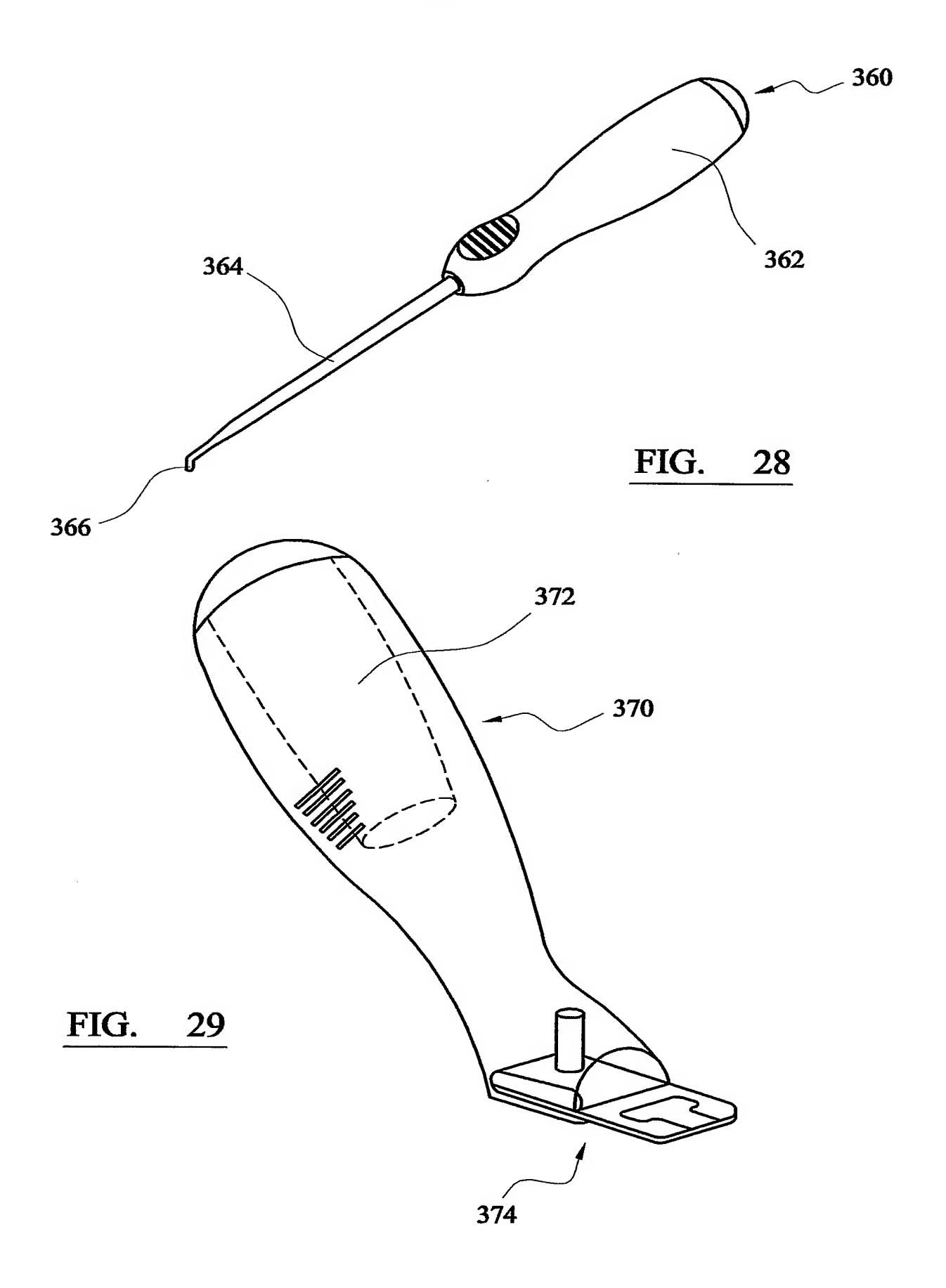


SUBSTITUTE SHEET (RULE 26)

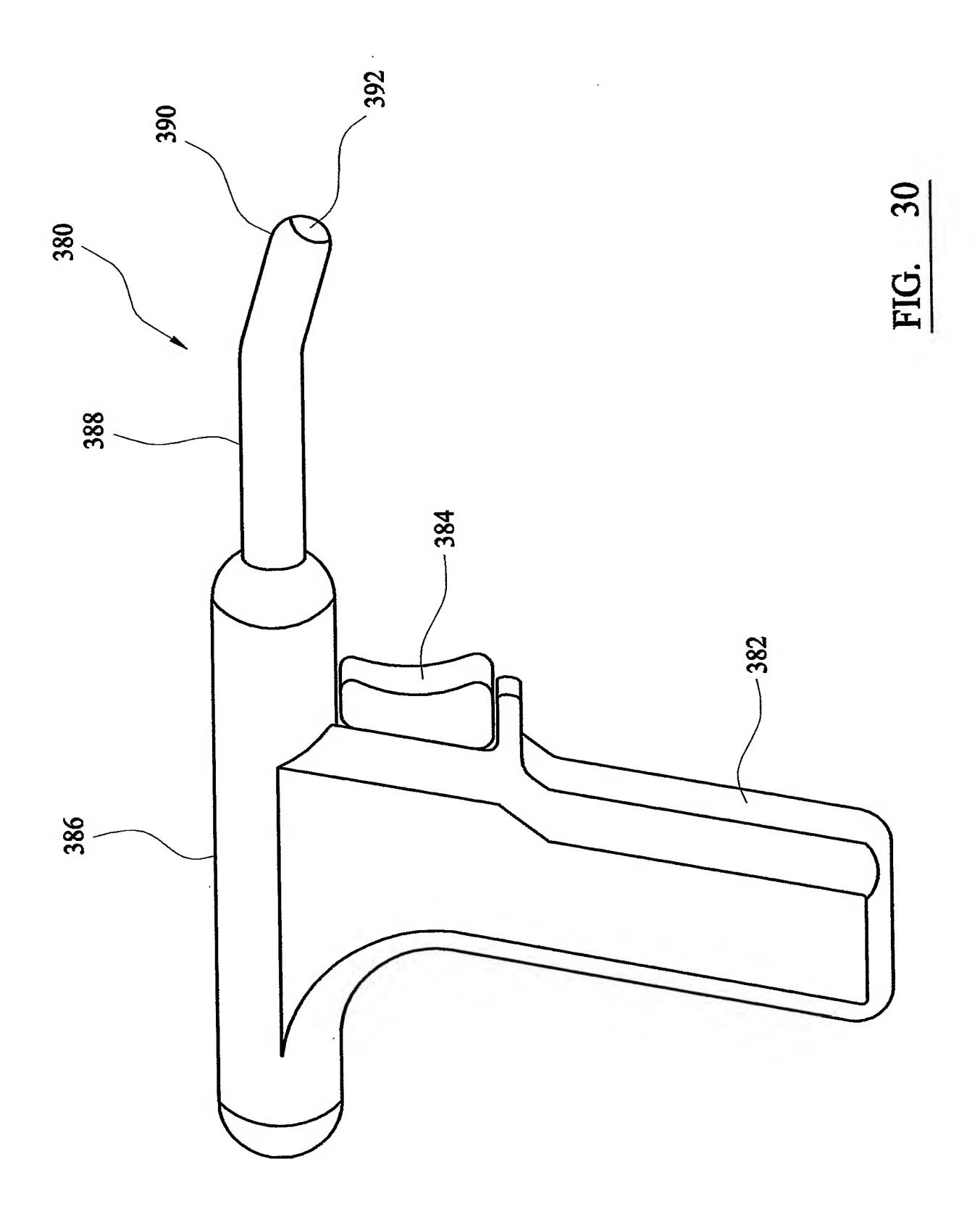


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PCT/GB2005/000933



SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

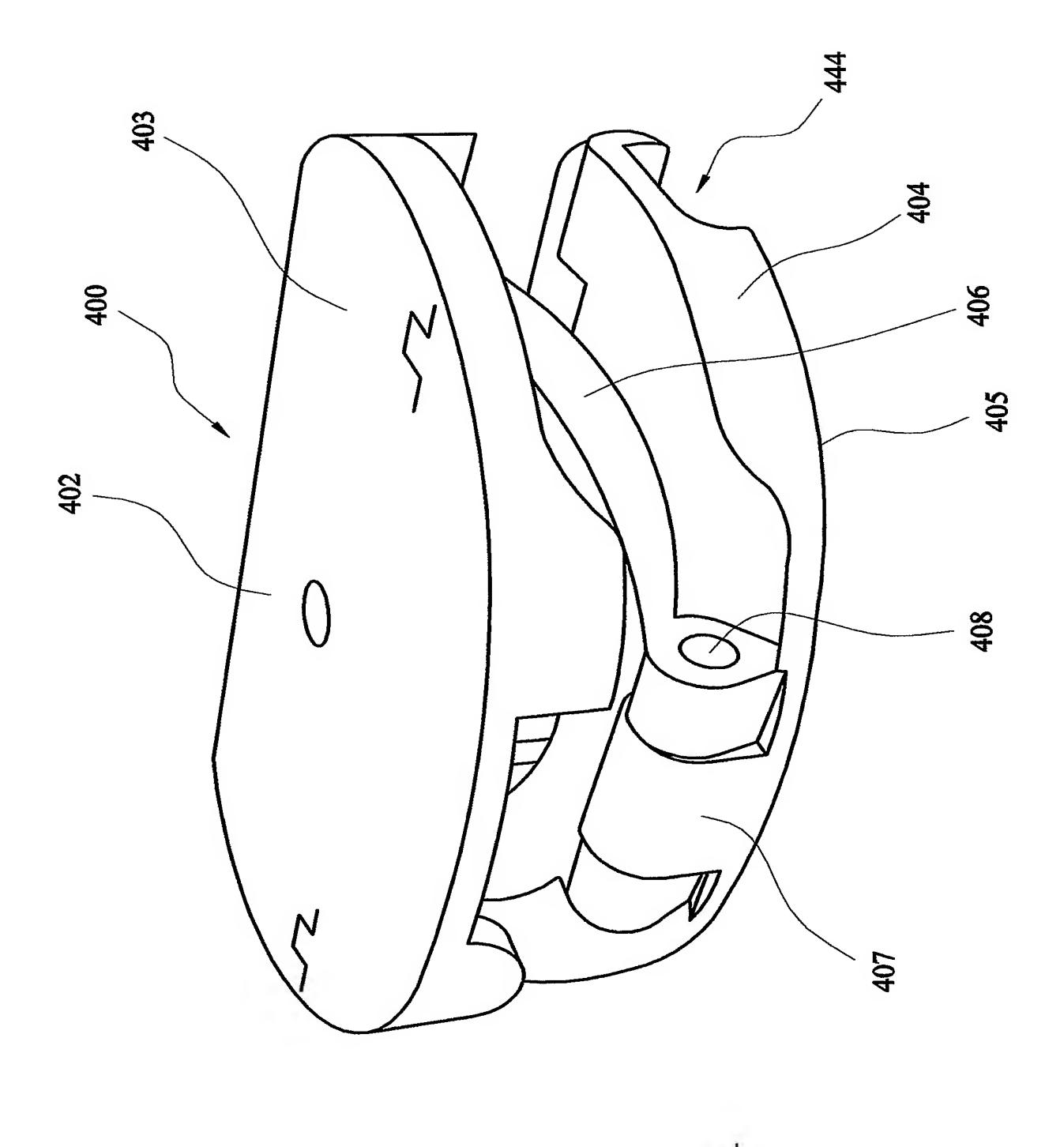


FIG.

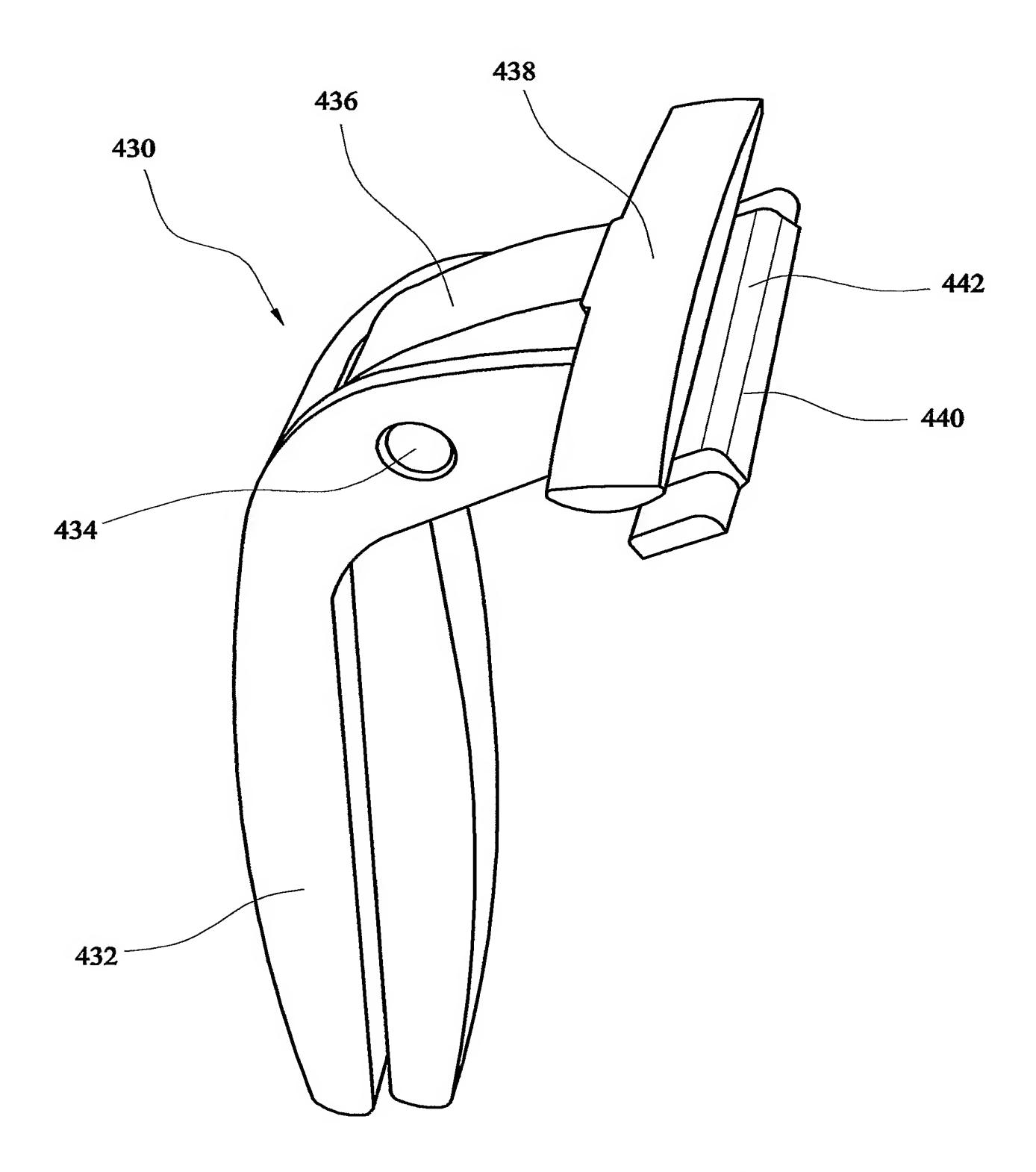
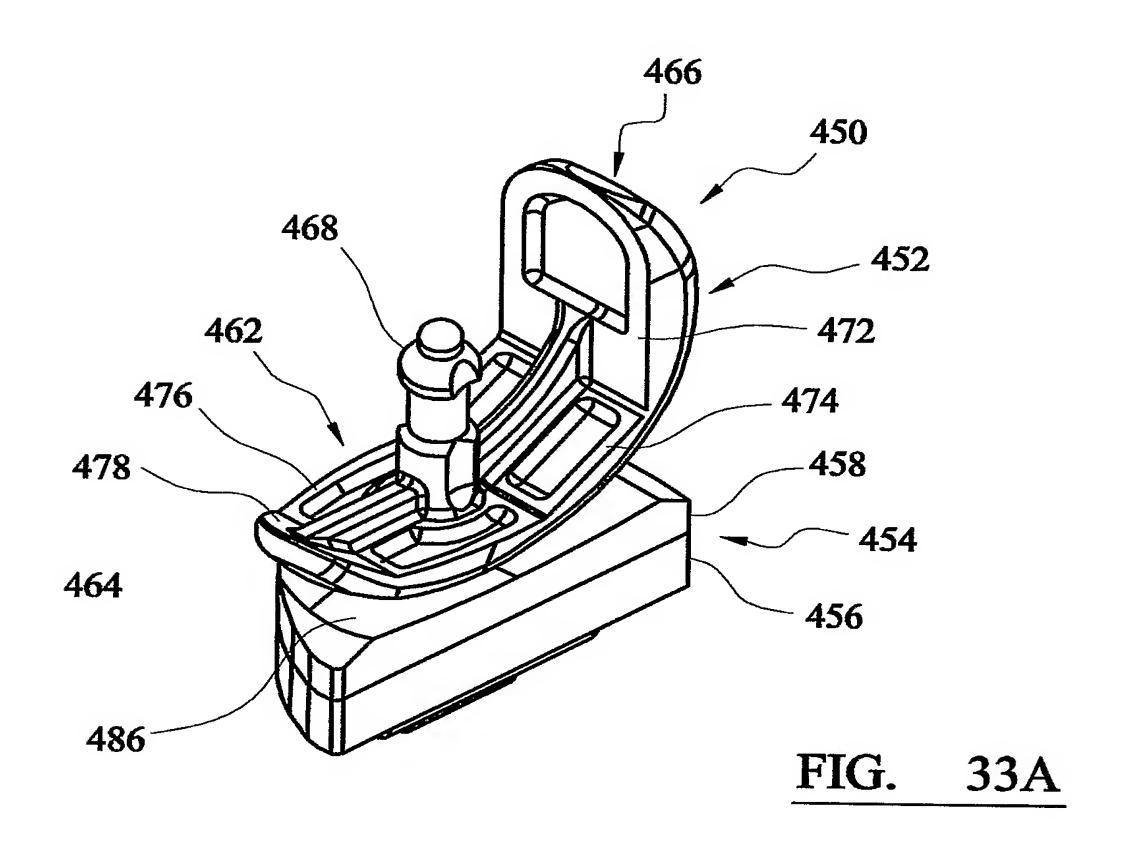


FIG. 32



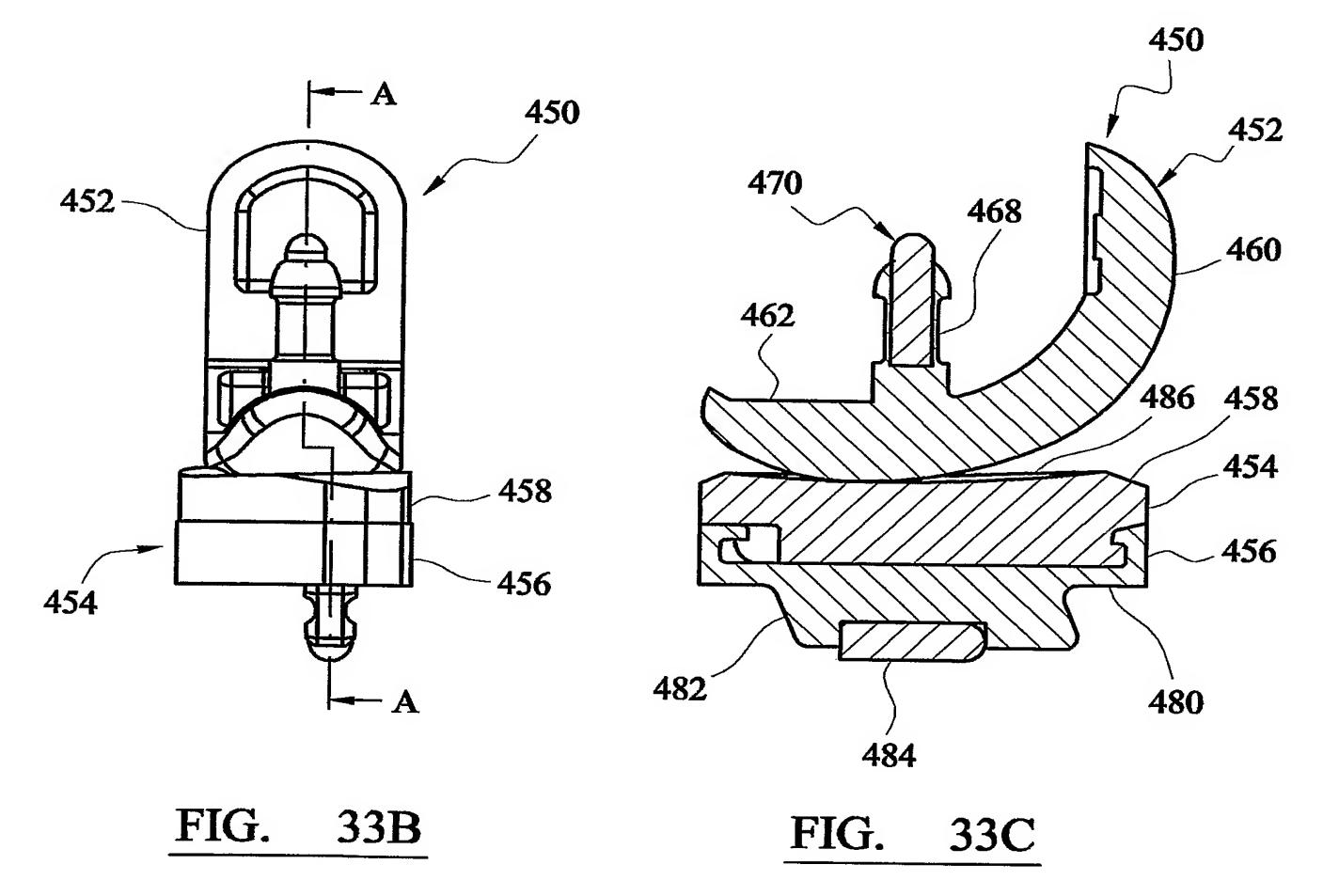


Fig. 34 682 680 Begin 684 Load patient data and any preoperative data and/or images 686 Display patient data and images on wall display and IGS system display(s) 688 X-ray based autoregistration of patient 690 Implant size and position planning or merge pre-op plan with intra-op model 692 Navigated incision using imaging device 694 Real time display from imaging device and/or OR camera close up on video wall 696 Track instruments, implants, tools 702 etc during surgical procedure 698 Real time display on video wall/ imaging device/IGS system display 700 no Surgery complete? yes 704 Intra-operative quality control 706 Done

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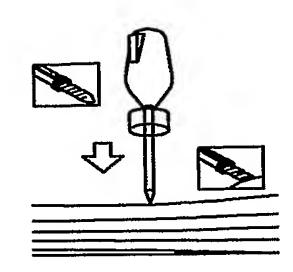


FIG. 35A

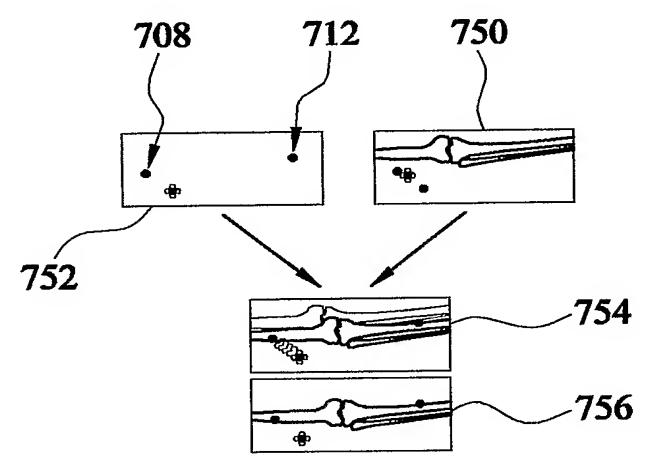
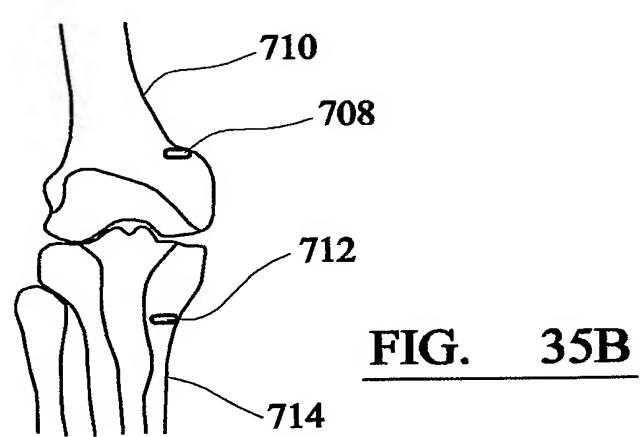


FIG. 35C



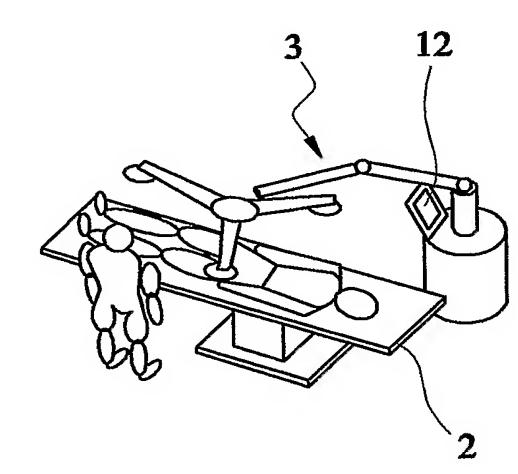
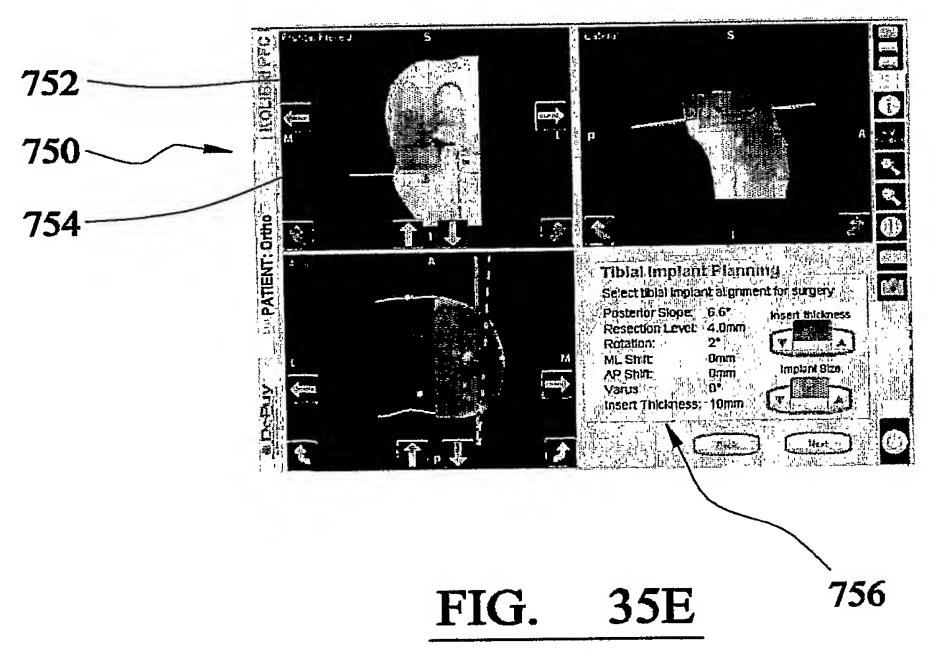
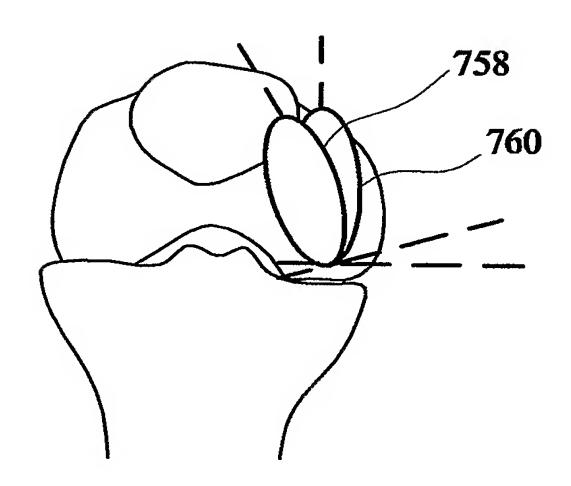


FIG. 35D



SUBSTITUTE SHEET (RULE 26)



760

FIG. 35F

FIG. 35G

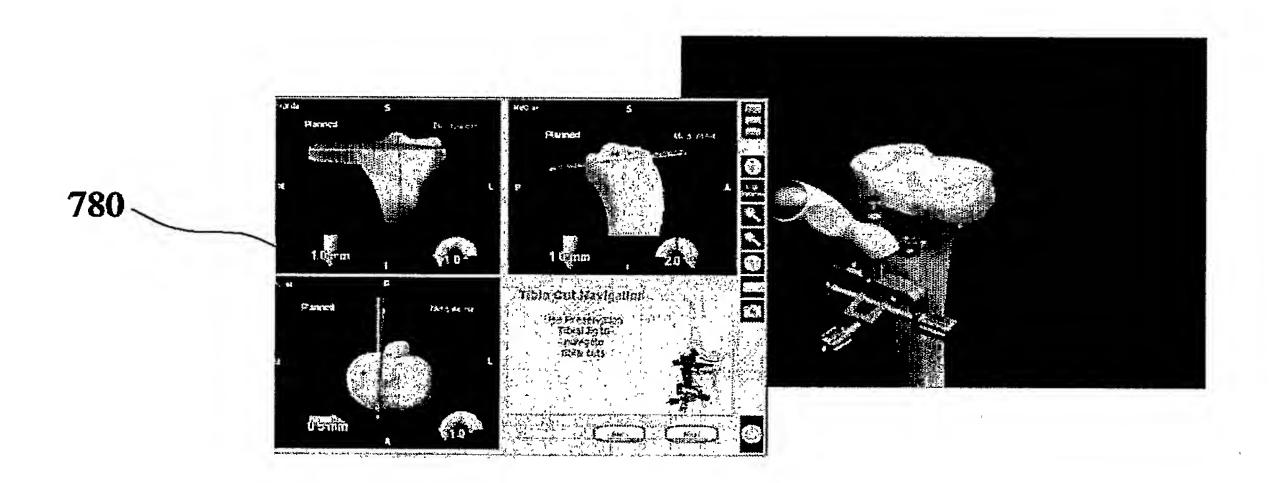


FIG. 35H

FIG. 35I

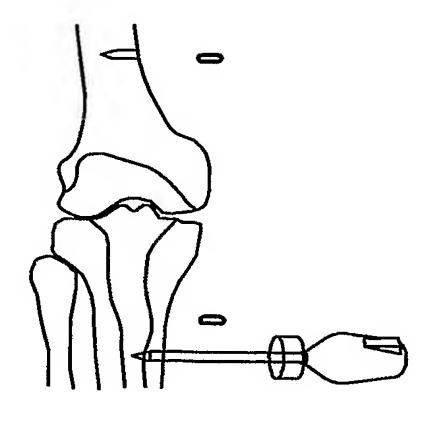


FIG. 35J

SUBSTITUTE SHEET (RULE 26)

Fig. 36A

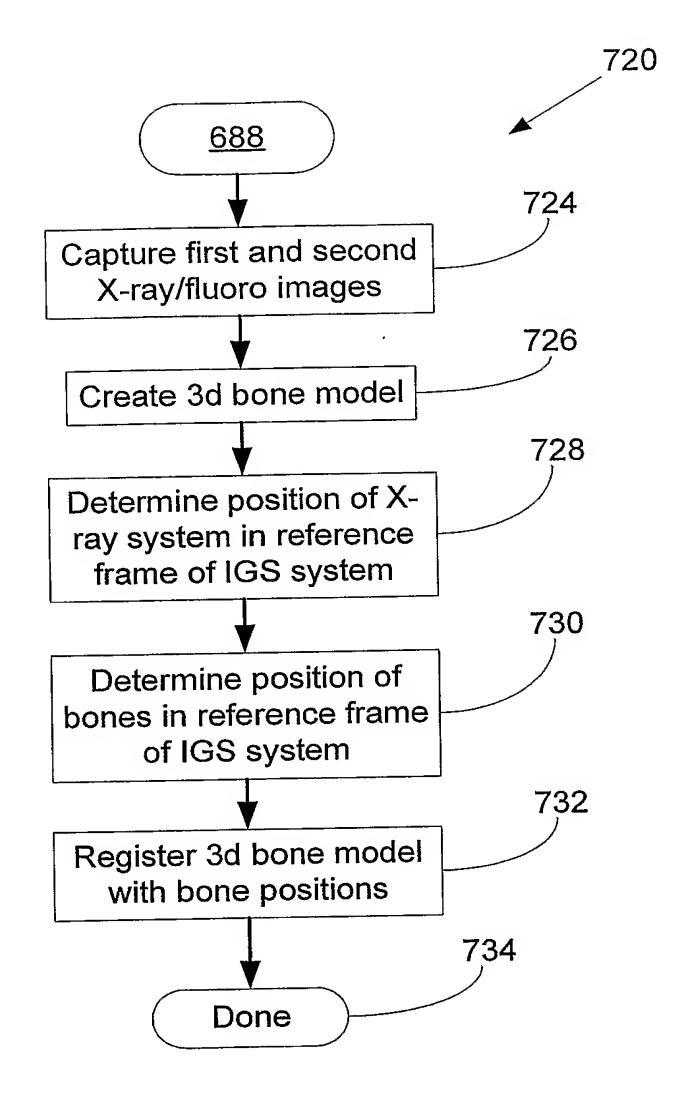
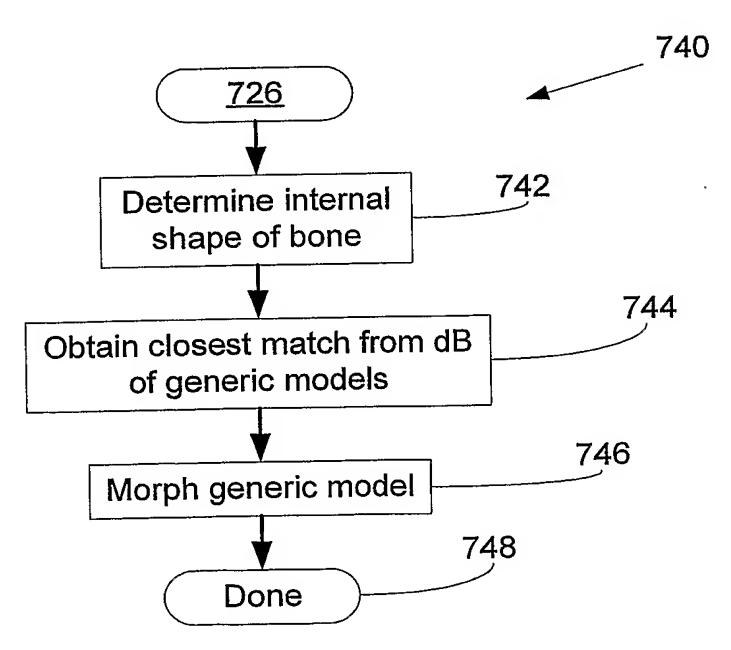


Fig. 36B



SUBSTITUTE SHEET (RULE 26)

Fig. 36C

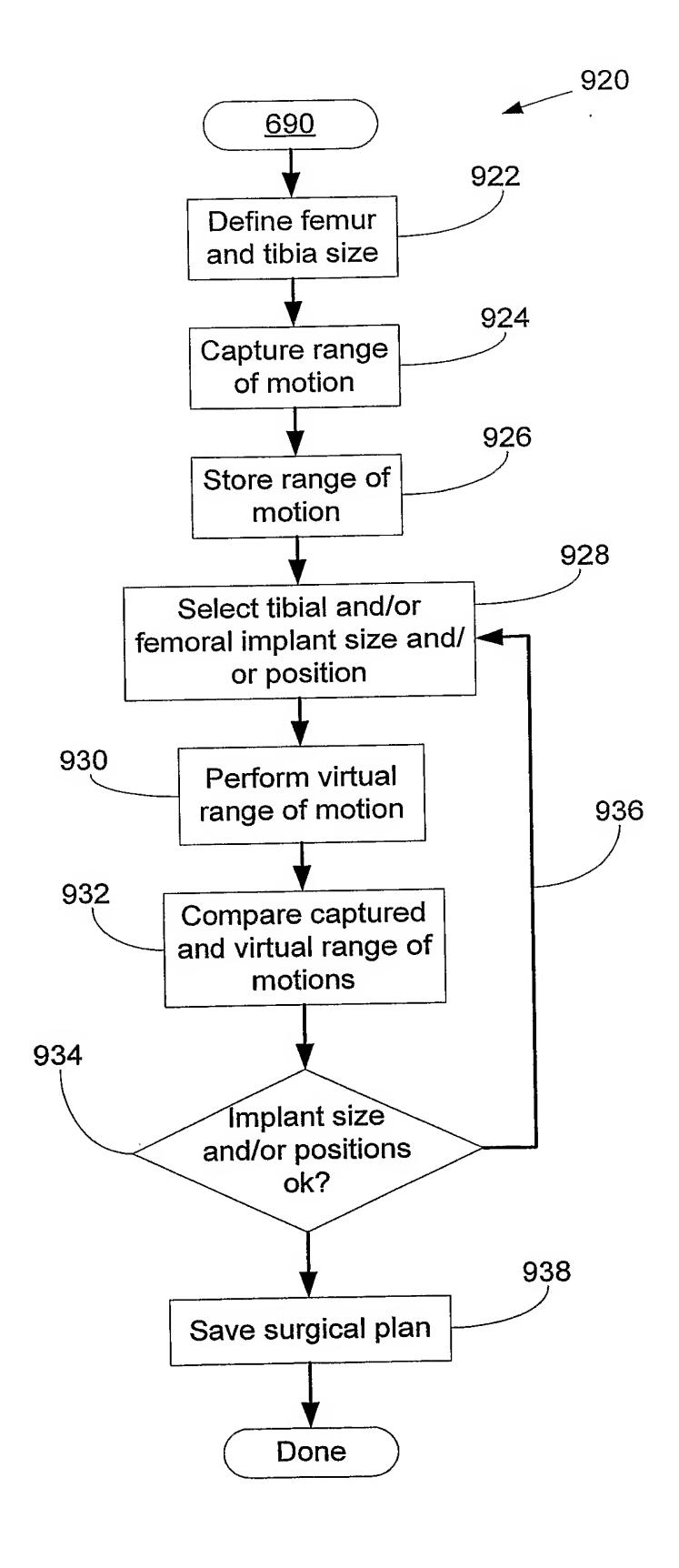


Fig. 37

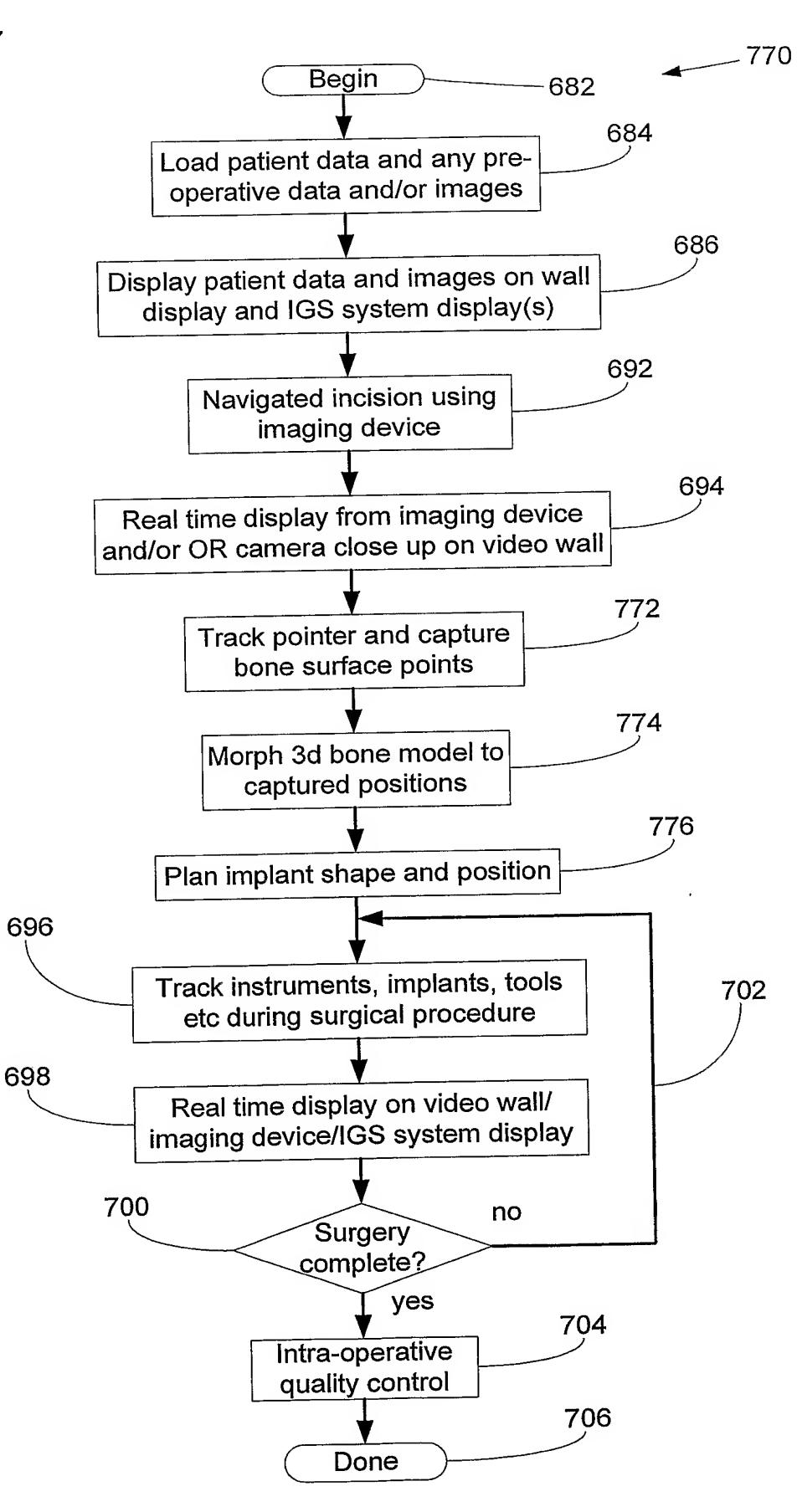
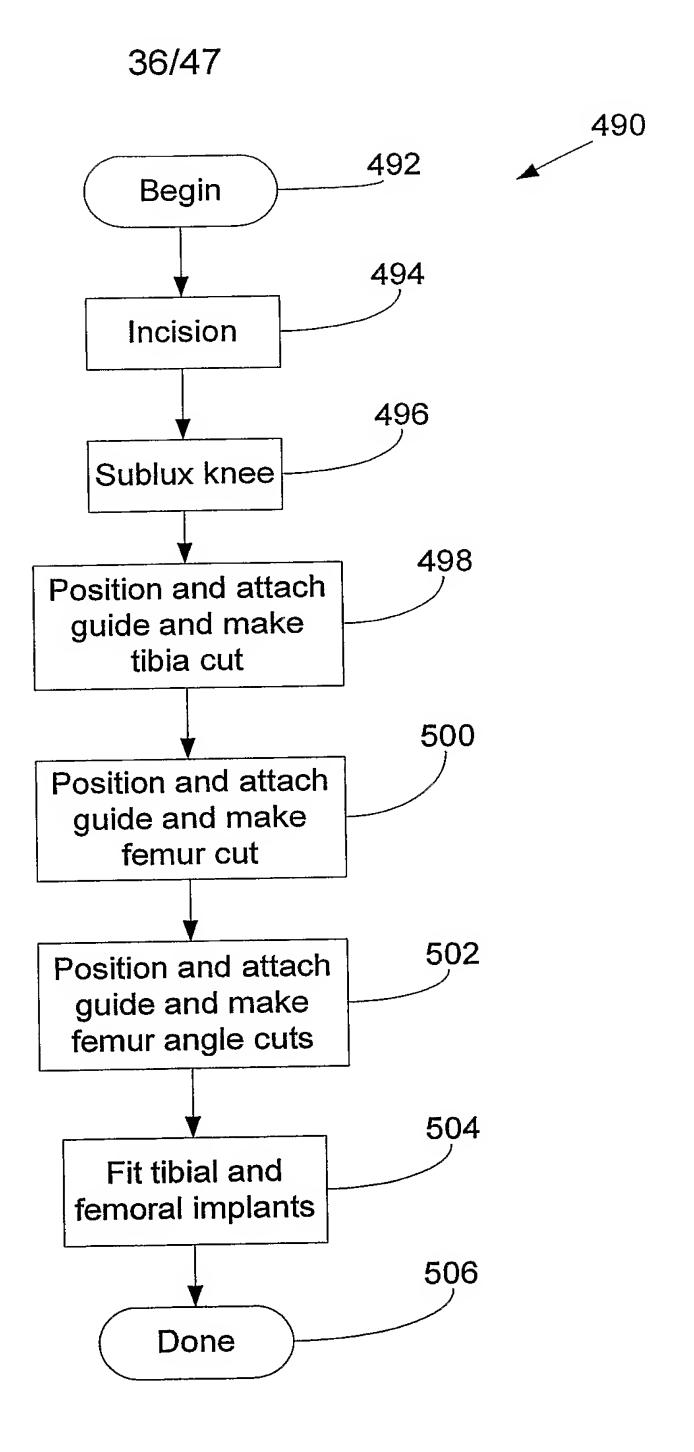
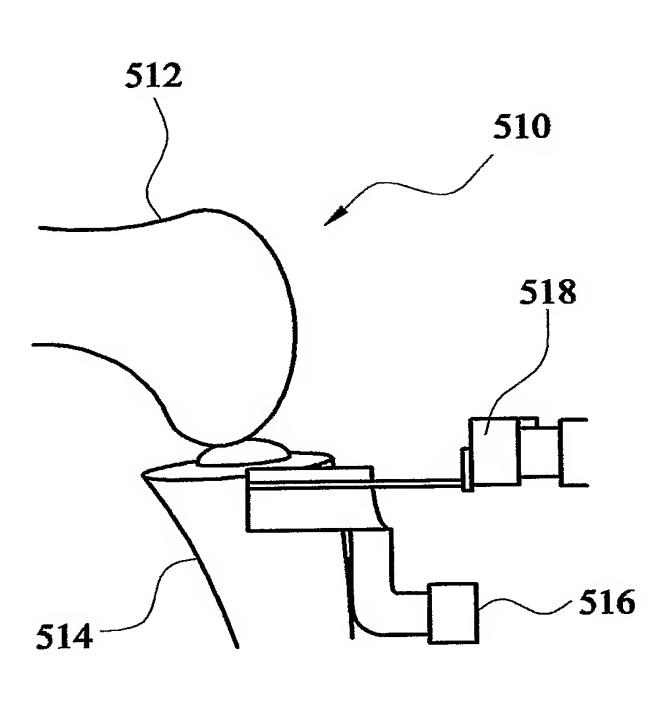


Fig. 38





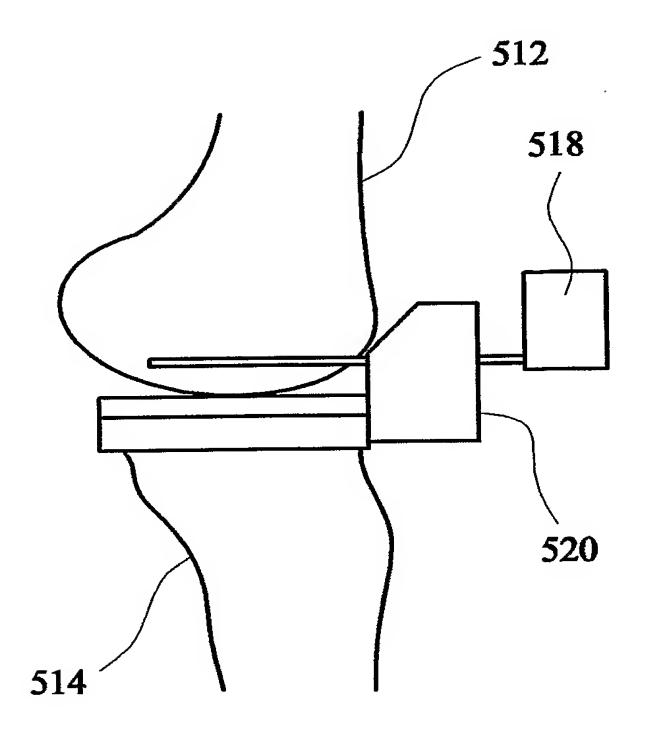
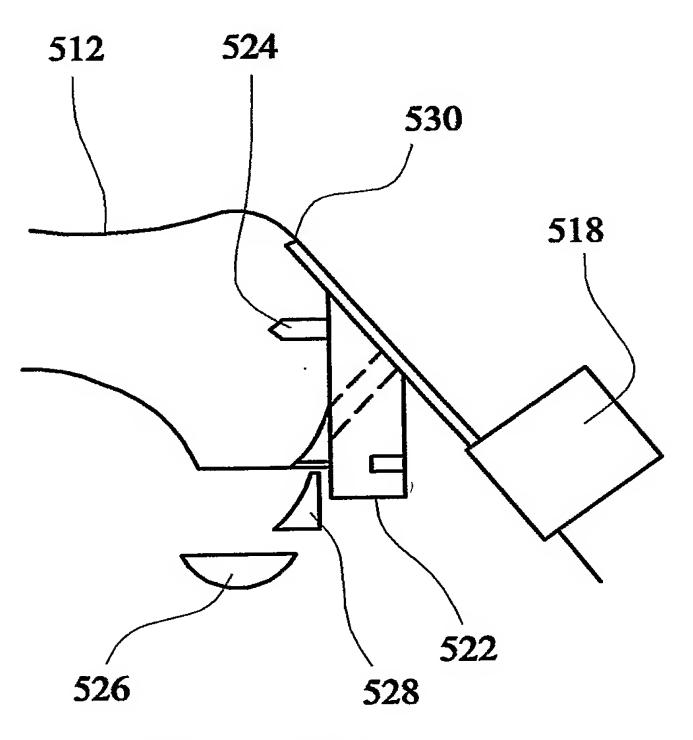


FIG. 39A

FIG. 39B



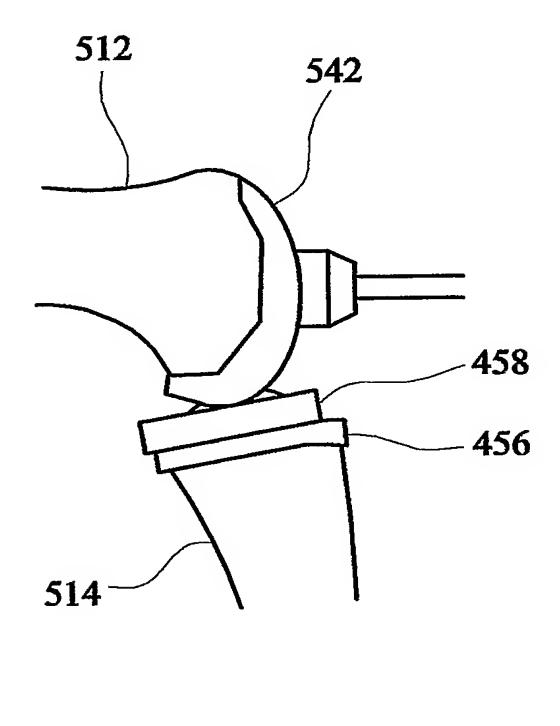


FIG. 39C

FIG. 39D

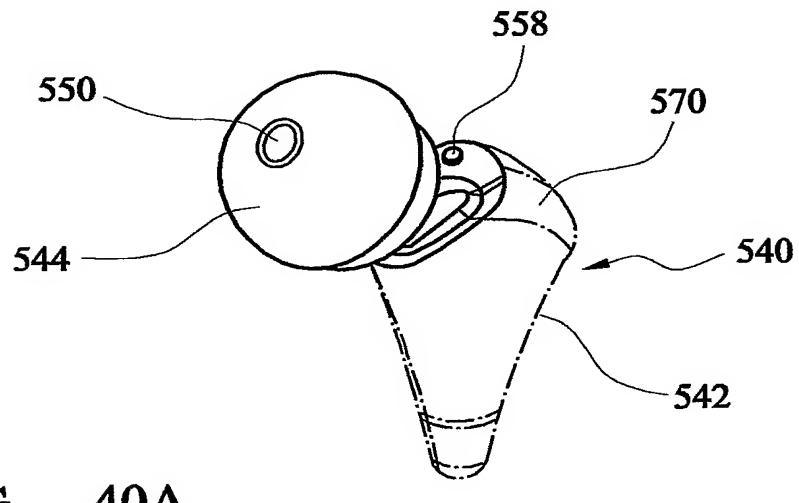


FIG. 40A

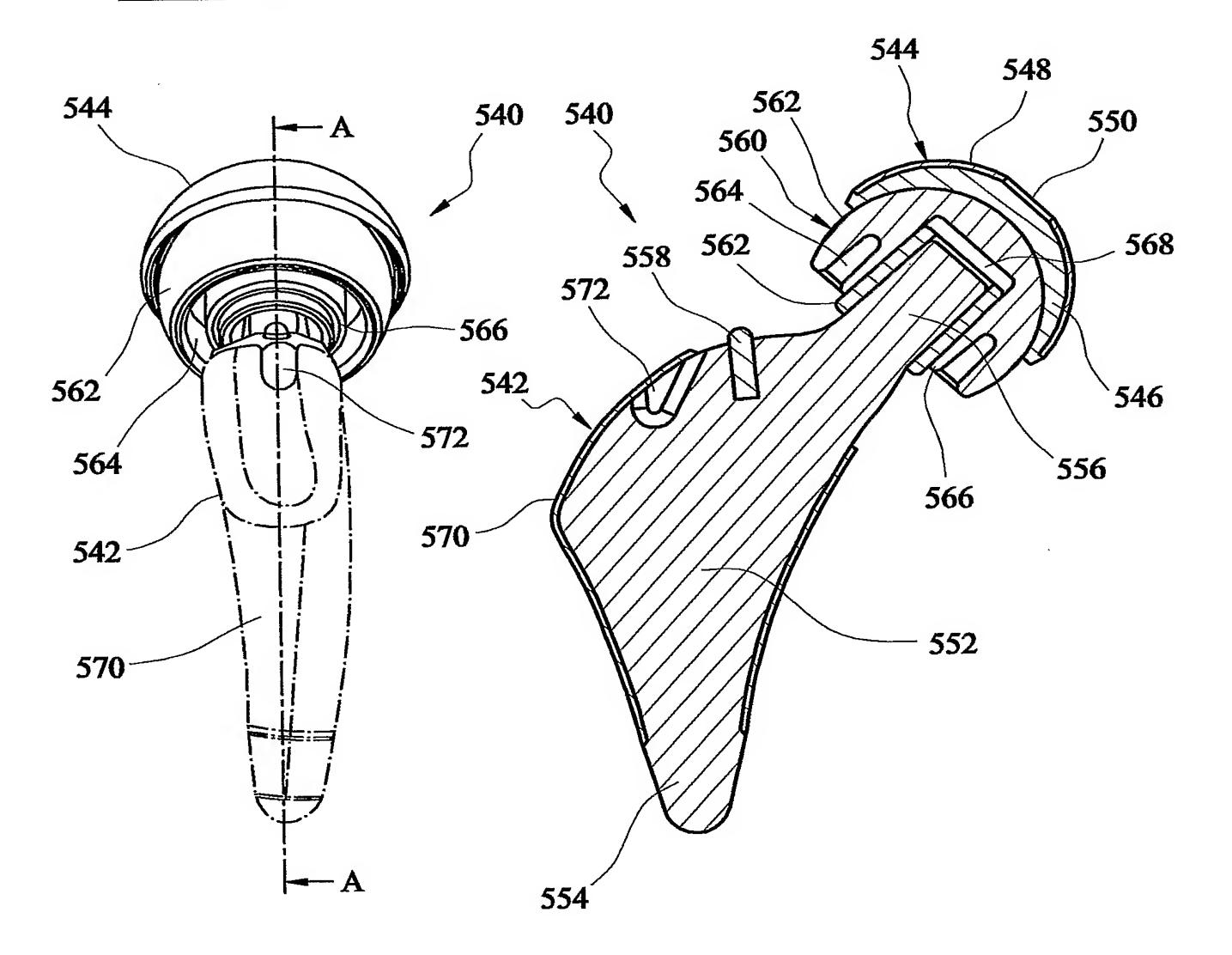
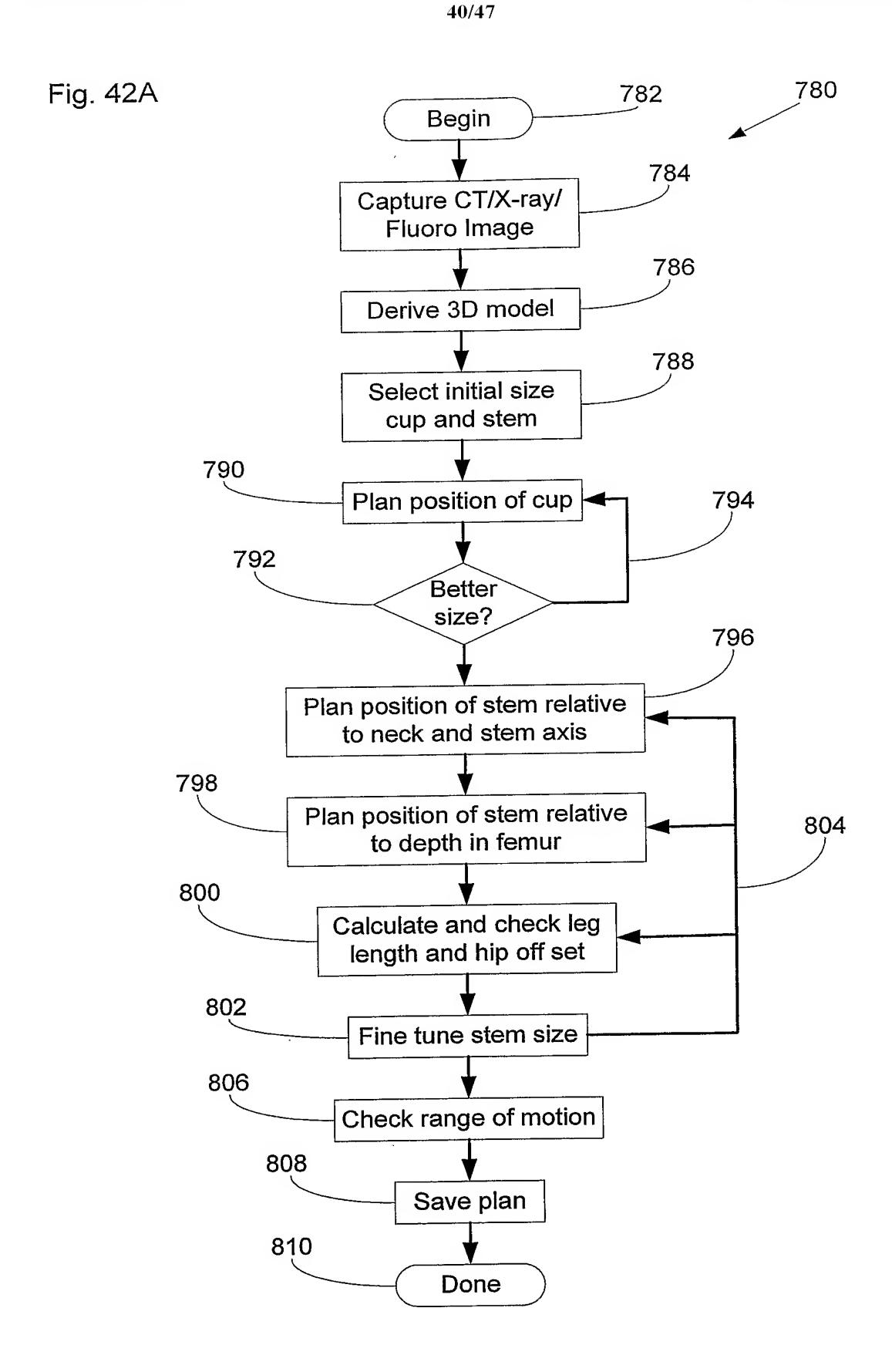


FIG. 40B

FIG. 40C

576 544 FIG. 41A 574 575 571 572 571 FIG. 41B **74** 578 **72 78** 573 FIG. 41C 571 577 **78 72** 74 571 41D FIG.



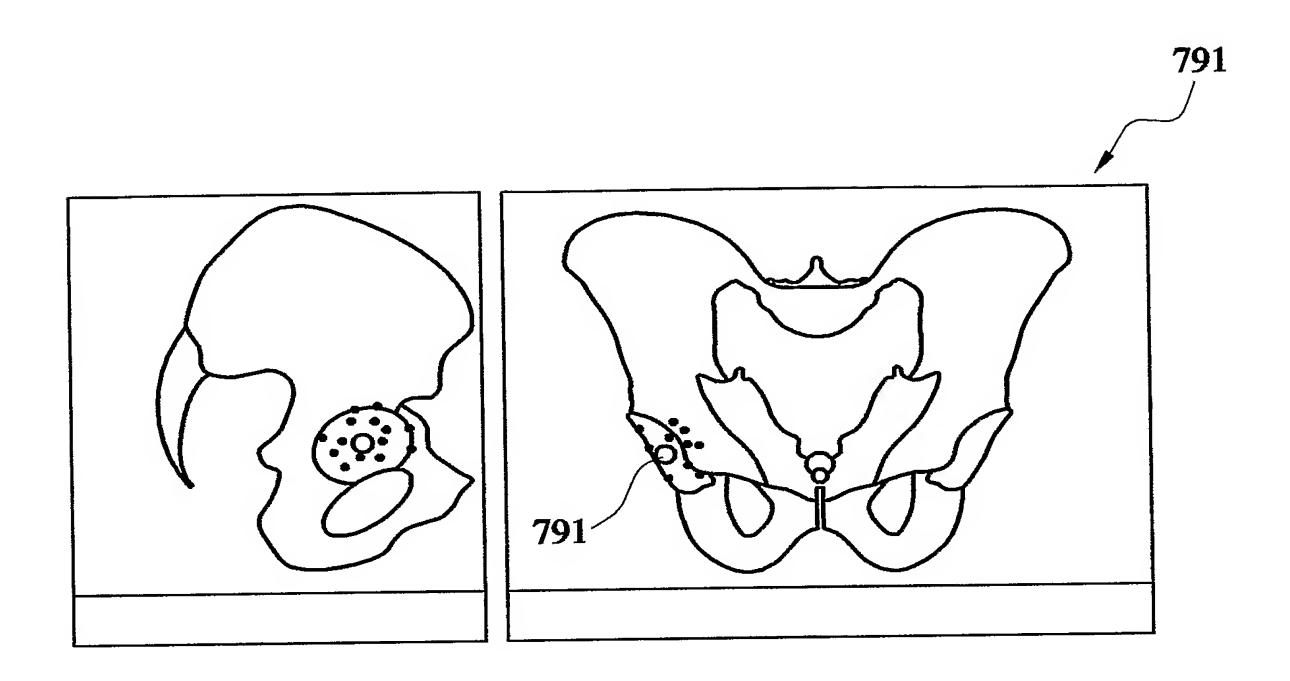


FIG. 42B

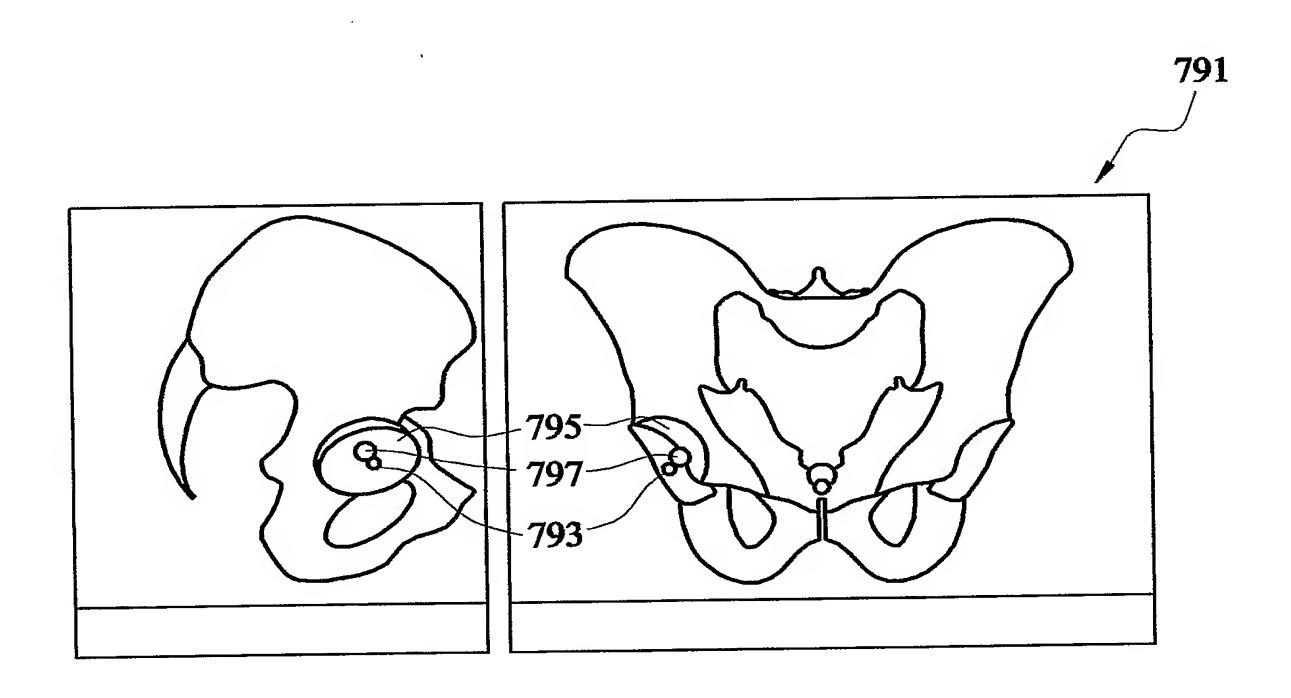


FIG. 42C SUBSTITUTE SHEET (RULE 26)



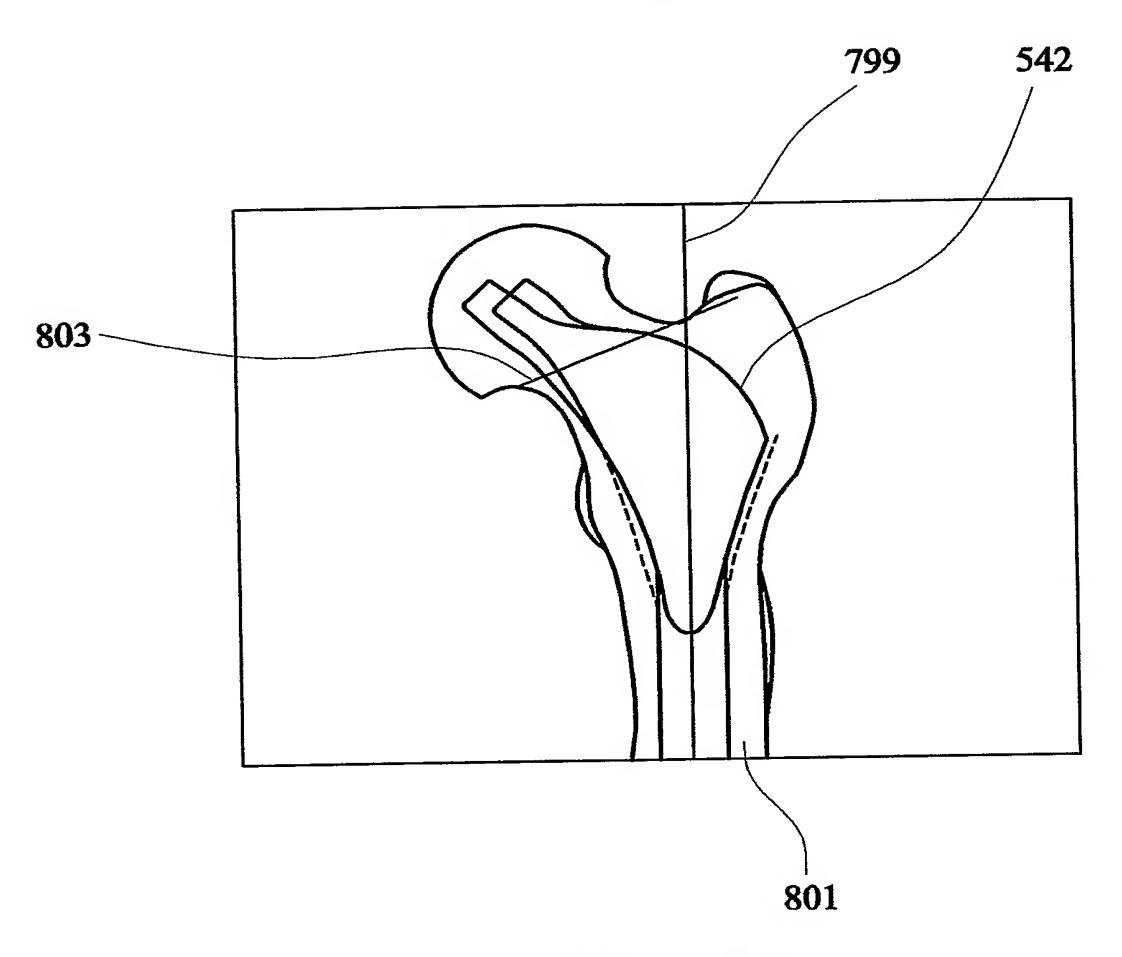


FIG. 42D

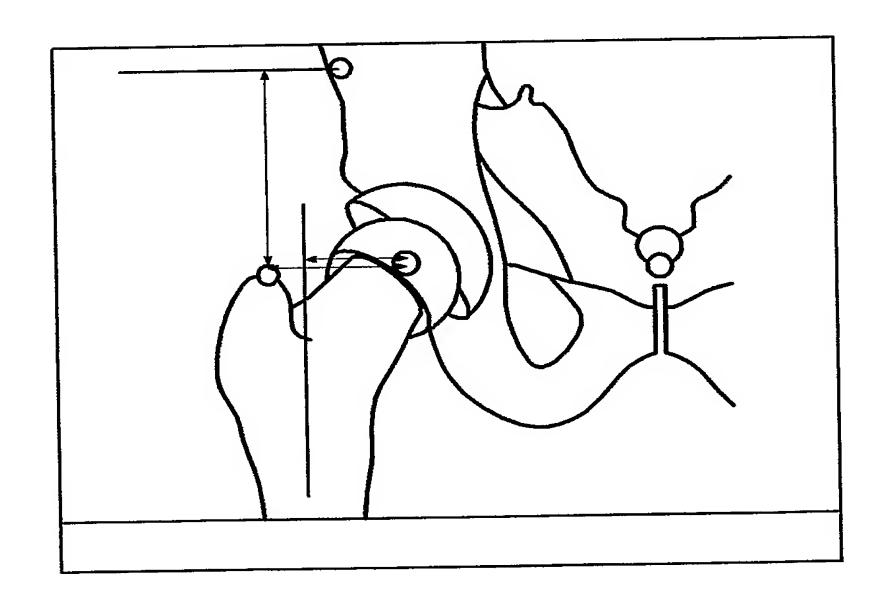
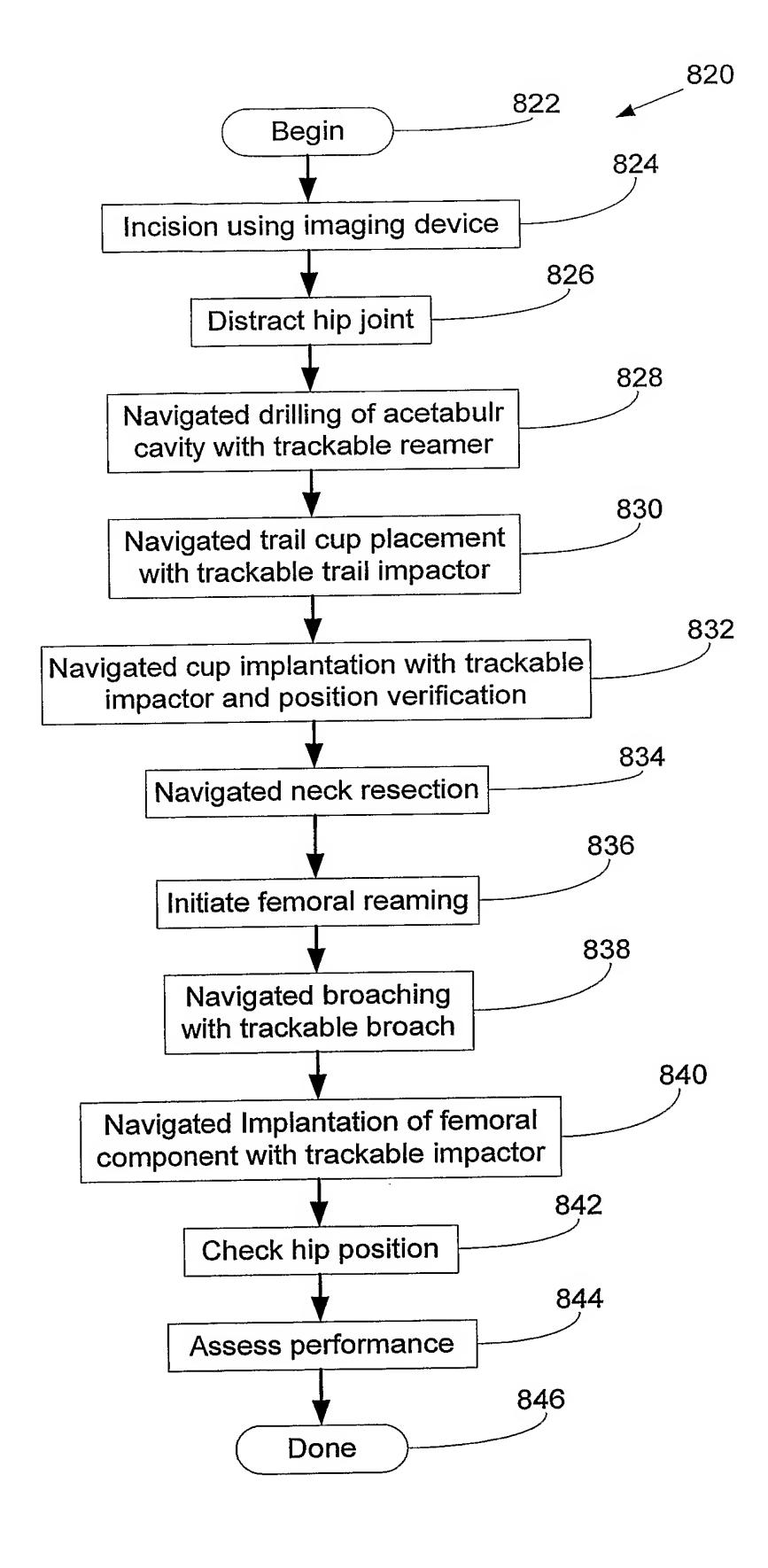
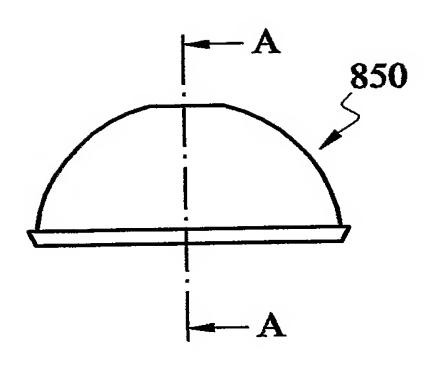


FIG. 42E
SUBSTITUTE SHEET (RULE 26)

Fig. 43

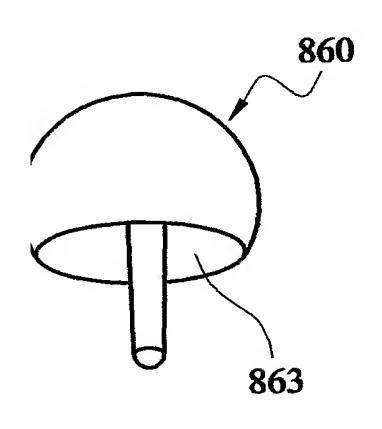


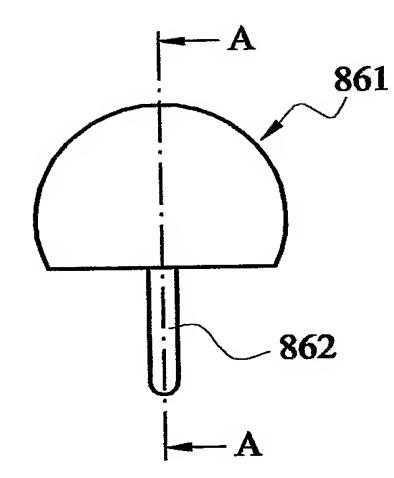


852

FIG. 44A

FIG. 44B





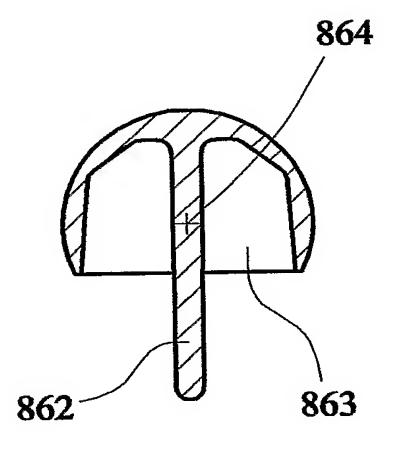
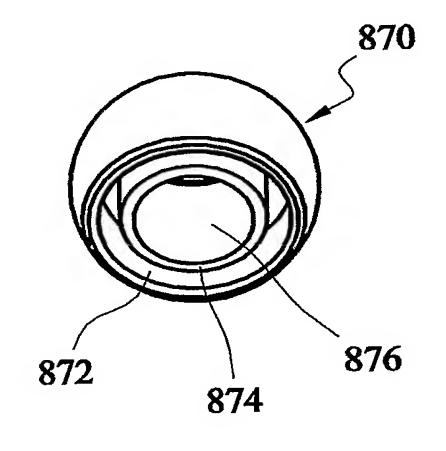


FIG. 45A

FIG. 45B

FIG. 45C



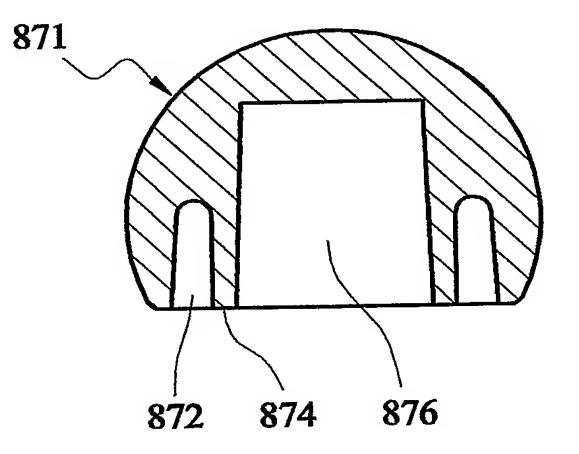


FIG. 46A

FIG. 46B

Fig. 47

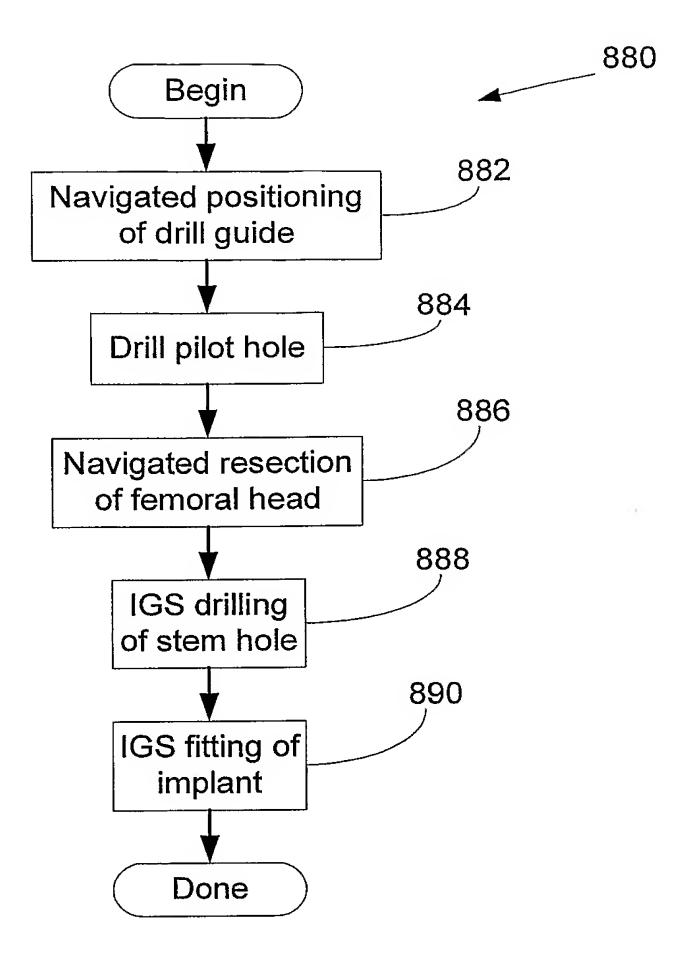
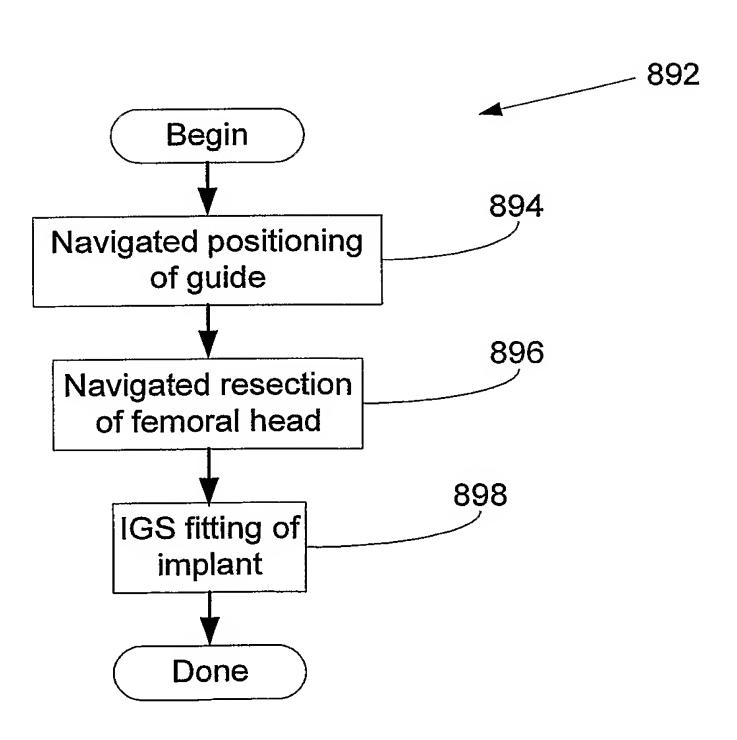
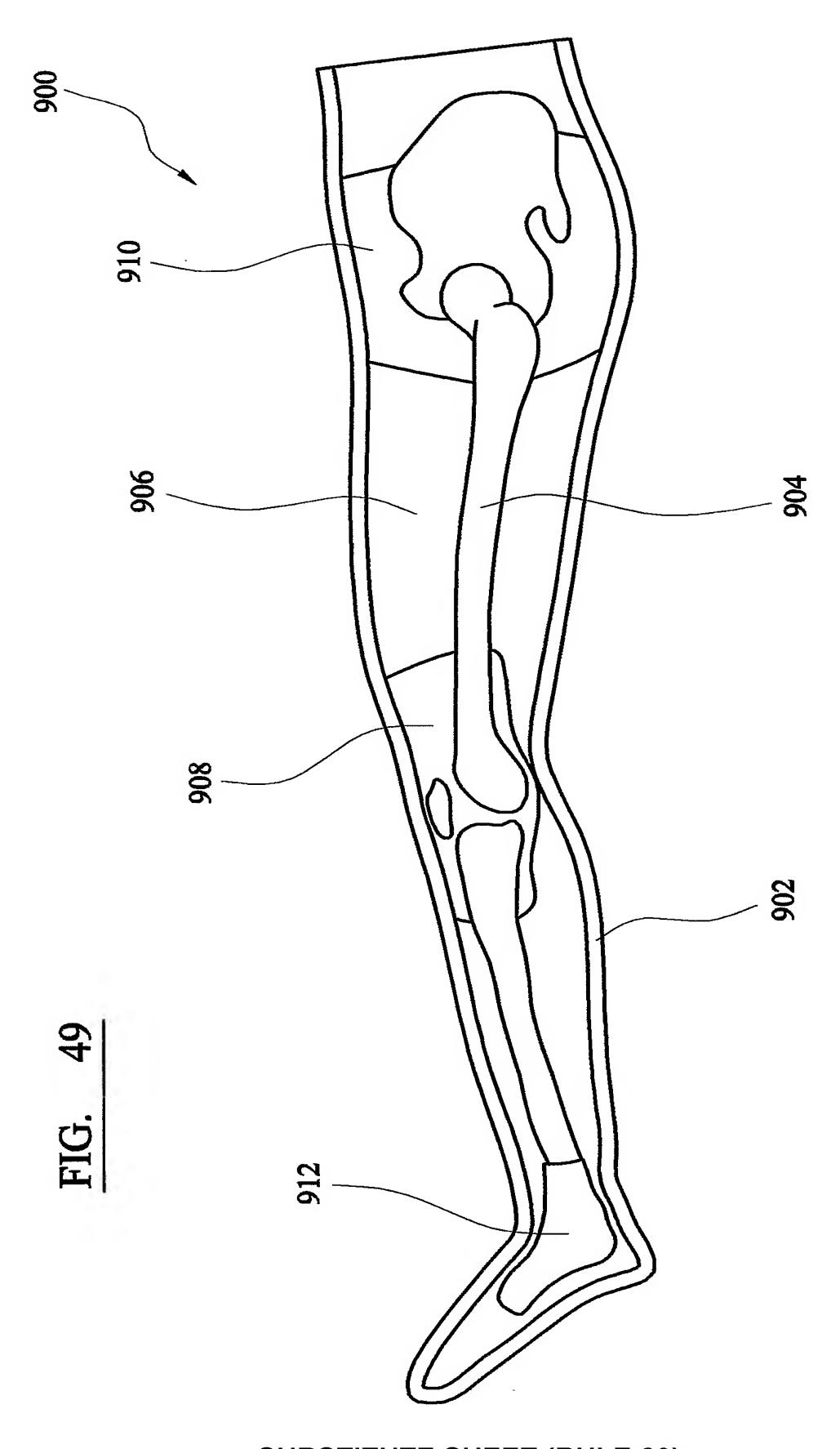


Fig. 48



SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

Fig. 50

